N52 Grange to Clontail Road Scheme

Archaeological Consultancy Services Contract Stage (i)–(iv)

County Meath

Part 7 - Preliminary Safety & Health Plan

T01 | October 2026

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TABLE OF CONTENTS

1. GENERAL DESCRIPTION OF THE PROJECT 1
1.1 Project Description 1
1.2 Programme Details 1
1.3 Project Team Details 1
1.4 Extent and Location of Existing Records and Plans 2
1.5 Communication Arrangements – Designers, PSCS and Others 2
2. CLIENT'S CONSIDERATION AND MANAGEMENT REQUIREMENTS 3
2.1 Structure and Organisation 3
2.2 Safety Objectives for the Project 4
2.3 Arrangements for Monitoring and Review – Design Risk Management 4
2.3.1 Design Risk Management – Permanent Works 4
2.3.2 Design Risk Management – Temporary Works 4
2.3.3 Design Risk Management – Design Changes 5
2.3.4 Design Risk Management – Contractor's Design 5
2.3.5 Permits and Authorisation Requirements 6
2.3.6 Emergency Procedures 6
2.3.7 Temporary Traffic Management 6
2.4 Site Rules and Restrictions on Contractor, Suppliers and Others 7
2.4.1 Restrictions on the Work Site 7
2.4.2 Restrictions on the Working Hours 7
2.4.3 Noise / Dust / Vibration 8
2.4.4 Prevention of Pollution / Nuisance 8
2.4.5 Activities on or Adjacent to the Site During the Works 8
2.4.6 Arrangements for Liaison Between Parties 8
2.4.7 Welfare Provisions 8
2.4.8 Security Arrangements 8
3. ENVIRONMENT RESTRICTIONS AND EXISTING ON-SITE RISKS 9
3.1 Safety Hazards 9
3.1.1 Boundaries and Access, Including Temporary Access 9
3.1.2 Adjacent Land Uses 9
3.1.3 Hazardous Materials – Existing Storage 9
3.1.4 Location of Existing Services – Water, Electricity, Gas etc. 9
3.1.5 Ground Conditions 10

3.1.6 Existing Structures – Stability, or Fragile Materials 10
3.2 Health Hazards 10
3.2.1 COVID-19 10
3.2.2 Asbestos, Including Results of Surveys 10
3.2.3 Existing Storage of Hazardous Materials (Health Risks) 10
3.2.4 Contaminated Land, Including Results of Surveys 10
3.2.5 Existing Structures, Hazards Materials 11
3.2.6 Client Activities and Associated Health Risks 11
4. SIGNIFICANT DESIGN AND CONSTRUCTION HAZARDS 12
4.1 Design Assumptions and Control Measures 12
4.2 Arrangements for Co-ordination of Ongoing Design Works and Handling Design Changes 12
4.3 Information on Significant Safety and Health Risks Identified During Design 12
5. SAFETY FILE 13
5.1 General 13
5.2 Format to be Used 13
5.3 Non-Exhaustive List of Information to be Provided to the PSDP 14
5.4 Indicative Layout of the Safety File (Non-Exhaustive) 14

APPENDIX A Designer's Assessment of Risk

APPENDIX B Drawings

1. GENERAL DESCRIPTION OF THE PROJECT

1.1 Project Description

This section is included for information only and does not form part of the Contract. The full scope of works, and the obligations of the Contractor, is to be ascertained by reference to the full set of Contract documents. The purpose of the plan is to provide health and safety information to the Archaeological Consultant/Contractor appointed to carry out the Archaeological Services (Stage i to iv) and shall be issued to every person being considered for the role of contractor or tendering for the project in accordance with regulation 9 of the 2013 construction regulations.

The N52 Grange to Clontail Road Scheme is located in Co. Meath, Republic of Ireland, in the townlands of Grange, Castletown, Stephenstown, Fringestown, Mitchelstown, Clontail, Co. Meath. It will consist of the realignment of a 4.8km section of the N52 national road to re-prioritise the junction with the R162 and remove a series of bends from Stephenstown and Fringestown to the north of Castletown village. The development will consist of 4.2km of offline realignment and 600 m of online realignment, with associated drainage, including attenuation pond and swales; fencing; safety barriers; kerb line; signage; and all site development and landscaping works.

1.2 Programme Details

The project schedule should in no way affect the Safety, Health and Welfare of those persons involved in the project to meet its requirements. It is the responsibility of the Project Supervisor for the Construction Stage (PSCS) to advise whether this timescale is achievable with respect to Health, Safety and Welfare considerations.

- Indicative Contract Commencement date: Q3/Q4 2026
- Indicative Contract Completion date: Q4 2028

It is considered by the PSDP that the specified contract period is a realistic timescale for a competent Contractor to complete the works safely. This is subject to confirmation and agreement with the appointed contractor and PSCS for the works.

1.3 Project Team Details

Table 1-1 Project team details

Name	Address	Contact details
Employer / Client	Meath County Council, Buvinda House, Dublin Road, Navan, Co. Meath C15 Y291	Catherine Dowdall 046 909 7000 cdowdall@meathcoco.ie Niall Roycroft 046 909 7000 niall.roycroft@meathcoco.ie
Designer	Roughan & O'Donovan AECOM Alliance (RODA) Fourth Floor, The Chase, Arkle Road, Dublin 18, D18 Y3X2, Ireland	Iwona Formanowska +353 (0)1 294 0800 iwonaformanowska@rod.ie
PSDS	Roughan & O'Donovan AECOM Alliance (RODA) Fourth Floor, The Chase, Arkle Road, Dublin 18, D18 Y3X2, Ireland	Morgan Hart +353 (0)1 294 0800 morgan.hart@rod.ie

1.4 Extent and Location of Existing Records and Plans

The Preliminary Safety and Health Plan have been prepared in accordance with the Safety, Health and Welfare at Work (Construction) Regulations 2013, (SI No. 291 of 2013) by the Project Supervisor for the Design Process. The expected duration of the contract works, and the particular risks associated with the project as detailed in the following sections of this document necessitate the preparation of a Preliminary Safety and Health Plan. The plan is being made available to the Contractor who will undertake the duties of Project Supervisor for Construction Stage (PSCS) who is required to develop it further into the Construction Stage Safety and Health Plan and subsequently prepare and maintain the Safety and Health File for handover to the Employer on completion of the Project. The PSDP has compiled this Preliminary Safety & Health Plan; based on the information made available by the Client and / or Designers. All persons involved in this Project have a statutory duty to provide any information to the PSDP, necessary for them to comply with their statutory duties. Services known to be present include Overhead ESB lines, Underground ESB LV & MV within the study area. Other services that may be present on site include Eir, National Broadband Ireland services. Contractor to confirm with landowner the location of any private services which may be present within the site area. Prior to commencing any works on site, the PSCS shall request that all existing drawings or other Safety Information that is in the possession of the Client and / or utility companies is forwarded to them to allow them safely to carry out this project. In addition, the PSCS, prior to commencing any works on site, should carry out whatever site investigations they deem necessary to safely execute the project. Any drawings / information received should be treated as non-exhaustive and must be verified by the contractor prior to commencing works. The client is not aware of any other safety file that may influence this scheme. Services known to be present on site are shown on drawings N52GC-RODA-HUT-SW_AE-DR-CU-500101-500108 and N52GC-RODA-HUT-SW_AE-DR-CU-500201-500108 in Appendix B.

1.5 Communication Arrangements – Designers, PSCS and Others

The Project Supervisor for the Design Process (PSDP) will meet with the PSCS, The Design Team and the Client on site prior to commencement of the project to review the developed Health & Safety Plan and the relevant Method Statements.

Note: The PSDP may carry out a project audit on site during the works.

2. CLIENT'S CONSIDERATION AND MANAGEMENT REQUIREMENTS

2.1 Structure and Organisation

The parties responsible for the compilation and implementation of the Safety & Health Plan are as follows:

Client

- Notify the HSA (Health & Safety Authority) of a design process using form AF1 (if applicable)
- Appoint a competent PSDP in writing.
- Supply all relevant Safety Files and safety information to the PSDP for inclusion in the Preliminary Health and Safety Plan.
- Appoint a competent PSCS in writing.

Project Supervisor for the Design Process (PSDP)

The person appointed by the client to co-ordinate the health and safety aspects of the project's design at the planning stages, including the preparation of the Preliminary Safety & Health Plan and the safety file.

Project Supervisor Construction Stage (PSCS)

The person appointed by the client to manage the construction work, control, co-ordinate and implement the health and safety requirements during the construction phase.

Notify the HSA of construction work using form AF 2.

Provide all necessary information to the PSDP to complete the Safety File.

Contractor / Sub-Contractor

Any person engaged by the PSCS / main Contractor to carry out construction works under the direction of the PSCS / main Contractor.

Designers

Any person who carries on a trade, business or other undertaking in connection with which he (a) prepares a design, (b) arranges for any person under his control to prepare a design, relating to a structure to be erected by a competent Contractor.

Safety Officer

The person(s) appointed, in accordance with Regulation 26 of the Safety, Health and Welfare at Work (Construction) Regulations 2013, to advise the Contractor(s) as to the observance of statutory requirements, exercise a general supervision of the observance of the statutory requirements, and the promotion of the safe conduct of work generally.

Site Safety Representative

The person appointed / elected in accordance with Regulation 23 of the Safety, Health and Welfare at Work (Construction) Regulations 2013, who may obtain safety information from the PSCS, make representations to the PSCS or Contractor(s) on site, investigate accidents & dangerous occurrences, make representations to HSA Inspectors, carry out safety inspections, investigate potential hazards and complaints and accompany HSA inspectors whilst they are on site.

PSCS / Safety & Health Plan

The PSCS must comply with the Safety, Health and Welfare at Work (Construction) Regulations 2013. It is the responsibility of the PSCS to develop the Safety & Health Plan for the Construction Stage. This involves the implementation of the Safety & Health Plan, and any required amendments. All Contractors must make available to the PSCS any information that will have implications to the safe maintenance of the structure for inclusion in the Safety File, as the work progresses.

Selection of the PSCS

The successful tenderer shall be appointed as the PSCS in accordance with the Safety, Health and Welfare at Work (Construction) Regulations 2013. The PSCS will receive a copy of the Preliminary Safety & Health Plan, as part of the Contractor documents. The Preliminary Safety & Health Plan details the Particular Risks involved in this project. It shall be the responsibility of the PSCS to develop the Preliminary Safety & Health Plan into the Construction Stage Safety & Health Plan, prior to commencing work on this project. The PSCS must forward a copy of the Construction Phase Safety & Health Plan to the Client / Project Supervisor for the Design Stage, for approval, prior to commencing any works on site.

2.2 Safety Objectives for the Project

The Safety, Health and Welfare at Work (Construction) Regulations 2013 places duties on Clients, Designers and Contractors with respect to health, safety and welfare provisions, so as to ensure that they are co-ordinated and managed effectively throughout all stages of the construction project. This Preliminary Safety & Health Plan sets out to ensure that the Project is managed and constructed in a safe manner and complies with current legislation. The PSCS is under a legal duty to implement and update, as required by changes in design or circumstances, the Safety & Health Plan throughout the Project lifetime.

2.3 Arrangements for Monitoring and Review – Design Risk Management

2.3.1 Design Risk Management – Permanent Works

Details of construction hazards, hazardous materials, and hazardous work methods or sequences which remain after the design process, that pose a particular risk to persons during the construction stage are documented in part 4.0 of this Preliminary Safety & Health Plan.

2.3.2 Design Risk Management – Temporary Works

All Temporary Works Designers are required to provide a ‘Temporary Works Design Certificate’ to the PSDP, for their element of the works on the project (refer to the HSA guidelines to the Construction Regulations 2013 part 4)

A temporary works design certificate is required for all temporary traffic management design. No temporary works may proceed until this certificate has been signed by the Permanent Works Designer (PWD) and the PSDP.

NOTE: Temporary works may include such matters as trench shoring, propping, working platforms, traffic management etc. Persons who make decisions on site in respect of these may be deemed to be designers. Those employing, or in control of, people undertaking design work are themselves deemed to be designers.

Safety systems: Fall-arrest anchor points and ladder support ties fixed to concrete may be considered Safety Critical Situations.

Lifting devices: Post-installed lifting devices in concrete members may be considered Safety Critical Situations.
Tie systems: Scaffolding ties fixed to concrete may be considered Safety Critical Situations.
Persons who make decisions on site in respect of these may be deemed to be designers.

The PSCS / Main Contractor for the works must provide and maintain all necessary temporary work support and is responsible for the design of all such temporary work support. The PSCS / Main Contractor must prepare a schedule of Temporary Works for the project. This schedule shall be reviewed by the PSDP on an on-going basis throughout the project.

The Contractor / PSCS must ensure the following process is in place:

- The Temporary Works Design Engineer develops The Temporary Works Design.
- The Temporary Works Design Engineer issues a Temporary Works Design Certificate.
- The Permanent Works Engineer ensures The Temporary Works Design is not in conflict with the Permanent Works Design and is to the appropriate standard and signs off on The Temporary Works Design Certificate.
- The PSDP signs off on The Temporary Works Design Certificate when the process is in place.

2.3.3 Design Risk Management – Design Changes

Where the design changes, the relevant Designer(s) are required to amend and update their Designer's Assessment of Risk and forward them to the PSDP. Where additional risks are notified to the PSDP, that affect construction works on the project, the PSDP shall forward these to the PSCS / Contractor for inclusion in the Construction Stage Safety and Health Plan.

During the construction phase the PSCS is to inform the PSDP of:

- Any unforeseen eventuality resulting in a substantial design change;
- Any proposal to depart from the principles set out in the Preliminary Safety and Health Plan;
- Any change to information for inclusion in the safety file.

The PSCS / main Contractor will be required to agree with the PSDP proposals and changes, such as described above and to the extent that they affect design, prior to their implementation.

2.3.4 Design Risk Management – Contractor's Design

The PSCS / Contractor must inform the PSDP in advance of any changes to design work that is to be carried out by the PSCS / Contractor, or other contractors during the construction stage. Such work may include engineer designed temporary works, e.g. design by specialist contractors or the design involved in changes / contract variations / contractor alternative proposals.

The PSCS / Contractor is to ensure that:

- All such design is prepared in accordance with Regulation 15, of the Regulations.
- The Design, Designer's Assessment of Risk, Permanent and / or Temporary Works Design Certificates and other health and safety information resulting from the design is passed to the PSDP for review and comment, prior to any decision to proceed with the related construction work.
- All Designers (including the PSCS's / Contractor's Designers) provide their Design, Designer's Assessment of Risk, Permanent / Temporary Works Design Certificates to

the PSDP at least 2 weeks prior to commencing any related construction works, for inclusion in the Preliminary Safety and Health Plan and / or the Safety File.

No construction works may commence until all relevant design safety information has been submitted, and approved, by the PSDP.

The PSCS / Contractor is required to supply the PSDP with Designer's Assessment of Risk and Permanent / Temporary Works Design Certificates for all Contractor Design Items (for which the Main Contractor shall be responsible), and in particular for the following items:

- Temporary Traffic Management;
- Propping or other temporary works required for the construction;
- Temporary Works Design for temporary edge protection;
- Designed / Non-standard Falsework and Formwork, if applicable (non-standard items not covered in the relevant manual).

The list above is non-exhaustive; the PSCS / Contractor shall provide Designer's Assessment of Risk and Design certificates for all work considered to require a design.

2.3.5 Permits and Authorisation Requirements

Works will require a 'Permit to Work' as detailed in the PSCS's Safety & Health Plan. Information to be provided at the earliest opportunity.

All permits for works shall be issued & administered by the CONTRACTOR / PSCS where applicable.

2.3.6 Emergency Procedures

Separate Emergency Plans will need to be prepared and maintained for the duration of the project by the PSCS / Contractor. These plans must be tested at regular intervals. All site personnel / visitors must be made aware of the Emergency Plans on arrival to the site. Fire escape routes must be always accessible and ensure that all emergency services can access all areas of the site.

2.3.7 Temporary Traffic Management

The PSCS / Contractor shall ensure that all works are carried out with minimum disruption to the existing roads network, businesses, or residential premises; and shall ensure that suitable temporary traffic management measures are in place.

The PSCS / Contractor is required to provide:

- Temporary traffic management design(s) / plan(s) – these must be drawn up in accordance with regulation 97 of the Regulations, the HSA publication 'Guidelines for Working on Roads', Chapter 8 of the 'Traffic Signs Manual' published by the Department of Transport, and the NRA document 'Guidance for the Control and Management of Traffic at Road Works', and any amendments thereto.
- A temporary works design certificate must be prepared for all temporary traffic management, this must be signed by the Temporary Traffic Management Designer, the Permanent Works Designer and the PSDP prior to the commencement of road works.
- Temporary traffic management design must be prepared by an authorised and competent person – a minimum of a certificate in the design of temporary traffic management is mandatory.

- The temporary traffic management plan shall be submitted to Meath County Council for agreement as stated in the Works Requirements.

The PSCS / Contractor is required to:

- Ensure the site and surrounding roads are kept clean and tidy at all times;
- Provide a flagman to safely direct vehicles onto, and off the site;
- Ensure that adequate security arrangements are in place to ensure unauthorised personnel are kept off the work site;
- Ensure that deliveries do not affect the safety of third parties.

2.4 Site Rules and Restrictions on Contractor, Suppliers and Others

The PSCS / Contractor must take all necessary provisions to protect the general public, site and delivery personnel.

2.4.1 Restrictions on the Work Site

The PSCS / main Contractor must ensure that the work area is properly fenced off to prevent any unauthorised access and to protect the public from the activities on site. The site is accessed through public roads, and the securing of the site must be reviewed on an ongoing basis for the duration of the works. In addition, the CONTRACTOR / PSCS must ensure that Method Statements are prepared prior to works commencing and implemented throughout the course of the works.

- The PSCS/ Contractor must provide safe access routes to the work area at all times.
- The PSCS / Contractor must ensure that all debris and materials are disposed off to a registered landfill site.
- The PSCS / Contractor must ensure that before any works takes place the area is scanned for underground cables and services.
- The PSCS / Contractor must ensure that there is an exclusion zone area in operation around all crane operations and a competent banksman is present for all lifts on site.
- All visitors to the site must report immediately to the site office or to the PSCS / Contractor on site.
- All personnel / visitors to the site must wear the correct personal protective equipment.
- All personnel commencing work, on site, must receive a site safety induction from the PSCS / Contractor.
- The PSCS / Contractor must ensure that all emergency egress routes are maintained at all times.
- The PSCS / Contractor must ensure that all work areas are suitably illuminated for the duration of the work.

2.4.2 Restrictions on the Working Hours

The PSCS is to liaise with the Client regarding allowable working hours and adhere to Works Requirements.

- Mon-Fri - 08.00-18.00 hrs

As is good practice, no person must work on his or her own on the site at any time. The PSCS / Contractor must ensure that they provide a supervisor at all times for all work taking place outside of normal working hours.

2.4.3 Noise / Dust / Vibration

The PSCS / Contractor is to ensure noise / dust / vibrations are kept to a minimum, so far as is reasonably practicable. Noise emissions on site must comply with the Safety, Health and Welfare (General Applications) Regulations 2007.

2.4.4 Prevention of Pollution / Nuisance

Appropriate measures are to be taken by the use of silt traps or other suitable means to prevent any pollutants entering any of the local streams or watercourses, or any adjoining private properties arising for the execution of the works and from dewatering of excavations.

2.4.5 Activities on or Adjacent to the Site During the Works

The following activities may be carried out in areas adjacent to the site (outside the scope of the Contract) during the course of the project:

- Safe local access to be maintained to all adjoining premises, at all times during the construction phase of the project.
- Tree and hedge removal contact.
- Private and public utilities companies carrying out routine maintenance and repair work to existing underground and overhead cables, pipe network etc.

2.4.6 Arrangements for Liaison Between Parties

The Client will meet with the Design Team / PSCS / Contractor and relevant Contractors on a basis as agreed between all relevant parties. Health & Safety shall be an item on the agenda and the implementation of the health & safety standards for the project shall be discussed.

2.4.7 Welfare Provisions

Temporary Site Accommodation – during construction

- The PSCS / Contractor shall provide all necessary temporary site accommodation / welfare facilities as per Part 14 of the Regulations (Construction Site Welfare Facilities), during the construction stage of the works.
- Any proposed temporary connections to sewers, services, water supply for welfare facilities will be the responsibility of the PSCS / Contractor.

2.4.8 Security Arrangements

The Contractor shall be responsible for the security of the site.

- They must adequately safeguard the site, the works, products, materials arising, plant and any existing buildings affected by the Works from damage, theft and trespass.
- The Contractor must take all reasonable precautions to prevent unauthorised access to the site, the works and adjoining properties.
- The works area is to be securely fenced off for the duration of the works.
- The Contractor’s attention is drawn to ensure that the site is secure from unauthorised access from young people outside normal working works. The Contractor shall make the site safe on completion of works.

3. ENVIRONMENT RESTRICTIONS AND EXISTING ON-SITE RISKS

3.1 Safety Hazards

3.1.1 Boundaries and Access, Including Temporary Access

Site extents are indicated on the drawings N52GC-RODA-GEN-SW_AE-DR-CH-500000, N52GC-RODA-EHR-SW_AE-DR-CH-500101-500108 and N52GC-RODA-EHR-SW_AE-DR-CH-500111-500118 in Appendix B. The proposed scheme will commence in the townlands of Grange, Castletown, Stephenstown, Fringestown, Mitchelstown, Clontail, Co. Meath. It is anticipated that access to the Site will be through existing field entrances off the existing N52 road or local roads. The Contractor will liaise with the landowners to obtain the necessary permission to enter the affected lands and agree an access route to the Site. It is anticipated that some vegetation/ tree clearance may be required in order to access some areas of the Site. Use of bog mats will be envisaged to access the site if required. The Contractor is to allow for this in their tender.

3.1.2 Adjacent Land Uses

The Contractor shall be responsible for liaising with all adjoining / neighbouring property owners and obtaining the necessary consents arising from the Contractor's method of construction. The Contractor shall provide a detailed Method Statement for all works.

3.1.3 Hazardous Materials – Existing Storage

There are currently no hazardous materials known to exist on site.

3.1.4 Location of Existing Services – Water, Electricity, Gas etc.

Prior to commencing any works on site, the PSCS / Contractor shall request that all existing drawings or other Safety Information that is in the possession of the Client and / or utility companies is forwarded to them in order to allow them safely to carry out this project. In addition, the PSCS / Contractor, prior to commencing any works on site, should carry out whatever site investigations they deem necessary to safely execute the project. Any drawings / information received should be treated as non-exhaustive. The PSCS / Contractor shall treat this information as non-exhaustive and shall contact the relevant service provider(s) to obtain up to date information. Contractor to contact the individual landowners to confirm the approximate location of private services. Contractor shall show due care in respect of existing underground services and take all necessary measures to support and protect all services or supplies for the duration of the works. The designers and PSDP have referred to services information, and this information is included as the best available on the services in the area of the project. Adherence to best practice and accepted codes of practice in relation to work on or near services is required. Table 3-1 below and drawings N52GC-RODA-HUT-SW_AE-DR-CU-500101-500108 and N52GC-RODA-HUT-SW_AE-DR-CU-500201-500208 show the list of known existing Services at this time. Locations of wells, septic tanks, water supply and sewage lines to be confirmed on site. This list is non-exhaustive.

Table 3-1 Known Services and Contact Details

Provider	Type	Address and Tel No.	Contact
ESB	HV/MV/LV overhead	Central Site, ESB Networks Osprey House, Lower Grand Canal Street, Dublin 2 Tel: 01 7027 055 Emergency Line 1850 372 999	Brian McGuinness brian.mcguiness@esb.ie
ESB	MV/LV underground		

Eir	Underground/ Overhead	Eir Records Office Cumberland House, Fenian Street, Dublin 2 Eir A.E.H, Knockmay, Portlaoise, Co. Laois	John Scully john.scully@openair.ie John McGinty john.mcginty@openeir.ie Paul McCormack paul.mccormack@Openeir.ie
National Broadband Ireland ltd (NBI)	Underground/ Overhead	3009 Lake Drive, Citywest, Dublin 24 D24 H6RR	noc@nbi.ie fen@nbi.ie
Private Landowners	Water supply and Sewage lines	N/A	N/A
Private Landowners	Wells and Septic Tanks	N/A	N/A

CAT scans to be carried out in advance of excavation.

3.1.5 Ground Conditions

A detailed ground investigation has been carried out on the Site. Please refer to the Factual Report, March 2015 attached in the Information Pack for more information.

3.1.6 Existing Structures – Stability, or Fragile Materials

N/A

3.2 Health Hazards

3.2.1 COVID-19

If an employee gets a positive test result for COVID-19, they should stay at home for 5 days and avoid contact with other people.

3.2.2 Asbestos, Including Results of Surveys

None made known to the PSDP. In the event of the occurrence of the discovery of asbestos, the PSCS / Contractor is to revert to best practice guidance for the disposal of Asbestos Containing materials (ACM) and document these measures in the Construction Stage Safety and Health Plan. A Method Statement is required for all works associated with ACMs. Competent persons only to handle / manage ACMs.

3.2.3 Existing Storage of Hazardous Materials (Health Risks)

The PSCS / Contractor, prior to commencing any works on site, should carry out whatever site investigations they deem necessary to safely execute the project. Risks include:

- It is possible for unsafe atmospheres to exist within existing drains.
- Leptospirosis (Weil's Disease)
- Risk associated with protecting gas mains.
- Farming land and risk from cattle.

3.2.4 Contaminated Land, Including Results of Surveys

None made known to the PSDP. In the event that Contaminated land is encountered the Contractor must advise the design team lead.

3.2.5 Existing Structures, Hazards Materials

No existing structures in the area of the proposed works which will have an impact on health.

3.2.6 Client Activities and Associated Health Risks

No known construction traffic will be present adjacent to the site.

Live vehicular and pedestrian traffic will be present on the surrounding road network which lies outside of the site area but will have to be used to gain access to the Site.

The following Third-Party activities will be taking place:

- Safe local access to be maintained to all adjoining premises, at all times during the construction phases of the project.
- Possible tree and hedge clearance.
- Private and public utilities companies carrying out routine maintenance and repair work to existing underground and overhead cables, pipe network etc. adjacent to the project site.

Road authority carrying out routine maintenance and repair work on the adjacent road may impact on the access and egress to and from site.

4. SIGNIFICANT DESIGN AND CONSTRUCTION HAZARDS

4.1 Design Assumptions and Control Measures

A general layout design has been prepared for the Contractor documents.

All of the design, work sequence and site set-up shall be reviewed by the Client as the process is undertaken.

4.2 Arrangements for Co-ordination of Ongoing Design Works and Handling Design Changes

Designers will be required to notify the PSDP of any changes which will affect the health and safety of the works. Refer to section 2.0.

PSCS must notify the PSDP/ Design team of any significant design changes.

4.3 Information on Significant Safety and Health Risks Identified During Design

Refer to Particular Risks identified in Designer's Assessment of Risk attached in Appendix A. This does not include commonplace hazards of construction which must be controlled by the application of good site management practices.

5. SAFETY FILE

5.1 General

All parties involved in this project have a statutory duty to provide all necessary information, for inclusion in the Safety File, to the PSDP, including the Client, Design Team, PSCS / Contractor, Designers, and Contractors. The information to be provided to the PSDP (non-exhaustive) is outlined in section 5.3 below.

The PSCS / Contractor shall coordinate arrangements to ensure all contractors / sub-contractors / designers forward all information necessary to the PSCS, for inclusion in the Safety File. The PSCS / Contractor is required to document to the PSDP, these arrangements to ensure all parties (under their control) pass on Safety File information to the PSCS, who will in turn forward this information to the PSDP. Information supplied as part of this element of the project will be incorporated into the overall design and will form part of the overall project safety file.

5.2 Format to be Used

The PSCS / Contractor / Design Team shall ensure that all information, for inclusion in the Safety File, is provided as follows:

- One soft copy and one hard copy of all information is to be provided to the PSDP. If the contract calls for additional copies of O&M Manuals etc., to be provided, these should be sent directly to the Client / Client's Representative, and not the PSDP.
- All information is to be provided in hard and soft copy format.
- All information is to be provided in 4-hole A4 presentation binders.
- The front cover of all binders shall contain the following information:
    - "Safety File"
    - the name of the project
    - the name of the Client
    - the date the information was forwarded
    - the name of the party providing the information
    - where a party provides more than one folder "Binder No. x of y"
- The spine of all binders shall contain the following information:
    - "Safety File"
    - the name of the project
    - the name of the Client
    - where a party provides more than one folder "Binder No. x of y"
- Each binder shall contain a table of contents.
- Each section within a binder shall be tabbed, with the appropriate section number.
- A drawing register is to precede all drawings provided.
- All drawings are to be marked "As Built" or "As Installed", folded to A4 size, placed in clear plastic pockets, and included in the relevant binder. Drawings are not to be paper punched.

Note: All Safety File information must be compiled and forwarded to the PSDP at or before Substantial Completion.

5.3 Non-Exhaustive List of Information to be Provided to the PSDP

Table 5-1 below list information to be provided to the PSDP.

Table 5-1 List of Information to be Provided to the PSDP

Party required to provide information for the Safety File	Information required by PSDP – non-exhaustive
Design team	
Client	• The Client is responsible for ensuring any existing Safety File, or other relevant information, is passed to the PSDP for inclusion in the Safety File.
PSDP	• The PSDP is responsible for ensuring the Design Team provide all necessary information for inclusion in the Safety File.
Designer	• Specification, Opinion of Compliance / Completion Certificate, Permanent Works Design Certificate.
Construction team	
PSCS / Contractor	• The PSCS is responsible for collating all Construction Team information and ensuring the Construction Team provide all necessary information to the PSDP for inclusion in the Safety File. • As Built Drawings, marked 'as built' • Opinion of Compliance / Completion Certificate • Maintenance / Cleaning procedures must be included in the Safety File • Any residual risks that have not been eliminated and may affect the safe operation and maintenance of the development must be outlined in a register for inclusion in the Safety File.
All Contractors	• Inspection Test & Commissioning Certificates • As Built Drawings, marked 'as built' • Operations & Maintenance Manual • Declaration of Performance

5.4 Indicative Layout of the Safety File (Non-Exhaustive)

TABLE OF CONTENTS

SECTION 1: NATURE OF PROJECT

1.1 Location of Project

1.2 Description of Project

SECTION 2: PROJECT BRIEF

2.1 Client and Project Team

2.2 Contractors

2.3 Information Received

2.4 Information Not Received - Health & Safety Authority (HSA) & Client Notified

SECTION 3: O & M MANUALS / AS BUILT DRAWINGS / COMMISSIONING DOCUMENTS DESIGN TEAM

3.1 Designers

3.2 Construction Team

3.3 Contractor (Name)

3.4 Other

SECTION 4: OTHER HEALTH & SAFETY ISSUES

4.1 Residual (Particular) Risk - Identified by Designers

4.2 Designer's Assessment of Risk (Residual (Particular) Risks) - Identified by Designers

APPENDIX A
DESIGNER'S ASSESSMENT OF RISK

Made (Design Engineer):	SR			**Scheme Name: N52 Grange to Clontail Road Scheme**		**Project Number:**
Checked:	IF			**Archaeological Consultancy Services Contract - Stage (i)–(iv)**		25.167
Date:	01/06/2026					
Identified Hazard or Risk.	**Exposed Party**			**Evaluation, Design Decisions and / or Alternative Actions**		
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*		**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Work which puts persons at work at risk of falling from a height (P)	✓			(a) The execution of the works involves working near embankments. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) All employees to be briefed before works starts on the task.* *(ii) All employees to wear appropriate personal protective equipment.* *(iii) Where required, staff to be trained in use of all Arrest / Fall Restraint equipment and any other equipment. E.g., M.E.W.P.* *(iv) Weather conditions to be considered.* *(v) Ensure that the work is always supervised.*		**No**
Work which puts persons at work at risk of falling from a height (P)	✓	✓		(a) The design and execution of the works require excavations **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) It is anticipated that the Contractor's method of construction will include for protective barrier measures around the top of the excavation.* *(ii) Correct work equipment shall be used for the relevant job.* *(iii) Ladders to be used for short duration work only.* *(iv) Consider using other equipment (MEWP, Scaffolding, Nets, Bean bags etc).* *(v) Wheel stops to be in place at tipping locations.* *(vi) Weather conditions to be considered.* *(vii) Ensure warning signage is in place.* *(viii) Exclusion zone to be in place for safety of persons on ground.* *(ix) Where required, staff to be trained in use of all Arrest / Fall Restraint equipment and any other equipment. E.g., M.E.W.P.*		**Yes**
Work which puts persons at work at risk of burial under earthfalls (P)	✓	✓		(a) The design and execution of the works require excavations **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) All trenchs/ openings to be identified dusring site risk assessment.* *(ii) It is anticipated that that the Contractor's method of construction will include for protective barrier measures around the top of the excavation.* *(iii) Excavations to be appropriately fenced off and signage erected.* *(iv) Batter back side of trenches.* *(v) Trench supports, propping, shoring and the like are anticipated to be used by the Contractor where required.* *(vi) Where below 1.25m the excavation must be adequately shored/trench box (may also be required for excavations less than 1.25m depending on work activity-assess)* *(vii) Spoil to be stored safely back from excavation.* *(viii) No undermining of structures (e.g., walls).* *(ix) Excavation to be inspected visually daily & recorded weekly on AF3 form.*		**Yes**
Work which puts persons at work at risk of engulfment in swampland (P)	✓			(a) The execution of the works require works near potentially unstable grounds. (Near streams) **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Ground stability should be tested before starting.* *(ii) Exclusion areas to be appropriately fenced off and signage erected.* *(iii) Heavy-duty mats (Bog mats) to spread machine weight and prevent sinking.* *(iv) Mandatory life jackets and other appropriate PPE should be worn.*		**Yes**

Identified Hazard or Risk.	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions	
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*	**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Work which puts persons at work at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a statutory requirement for health monitoring (P)				N/A	**N/A**
Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Directive 96/29/Euratom (P)				N/A	**N/A**
Work near high voltage power lines (P)	✓			(a) The project site includes Low, Medium, High Voltage Overhead lines **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Refer to drawings for details on utilities.* *(ii) The utility service locations are indicative only. The Contractor shall verify all site locations prior to commencing work.* *(iii) Overhead services to be identified & marked with paint/signage erected//highlighted with goalposts where required.* *(iv) No tip zones of 3 metres horizontal distance from overhead powerlines to be marked on the roadway (No Tip Zone).* *(v) Electrical Wires Crossing Road: All tipper trucks etc to lower trailor before entering tip zone. Trailors must not be raised until trailor has exited tip zone. No vehicle in "No Tip Zone" to exceed 4.2m in height.* *(vi) Electrical Wires parallel to Road: Minimium clearance required:* *Low Voltage/1m; 10,20,38kV/3m; 110kV/4.5m; 220Kv/6m; 00Kv/8m* *(vii) Banksman to be available where required (e.g. reversing trucks, overhead power lines, tipping trucks).* *(viii) Only trained, competent persons to carry out work with electricity.* *(ix) Contact service provider if required to divert/shut off.* *(x) Isolate power by lockout/Tagout system (see relevant SOP).* *(xi) Barriers and warning signs to be installed around electrical appliances under repair .*	**Yes**
Work exposing persons at work to the risk of drowning (P)	✓			(a) The nature of work invloves working close to water bodies (streams) **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Install edge protection where required.* *(ii) Life jackets to be worn where required & Ringbuoyto be available for rescuce.* *(iii) Fall arrest equipment to be worn where required.*	**No**
Work on wells, underground earthworks and tunnels (P)				N/A	**N/A**
Work carried out by divers at work having a system of air supply (P)				N/A	**N/A**
Work carried out in a caisson with a compressed-air atmosphere (P)				N/A	**N/A**
Work involving the use of explosives (P)				N/A	**N/A**
Work involving the assembly or dismantling of heavy prefabricated components (P)				N/A	**N/A**

Identified Hazard or Risk.	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions	
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*	**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Working Adjacent to Live Traffic	✓	✓	✓	(a) Live traffic will need to be maintained on N52. ***Action: The following measures will be taken to eliminate the hazard/ reduce risk:*** *(i) Site to be investigated.* *(ii) The Contractor is anticipated to provide traffic management, routing of vehicles and personnel to reduce risk.* *(iii) Traffic Management Plan to be drawn up / in place.* *(iii) The Contractor is anticipated to laise with Gardai if required.* *(iv) Erect signage as per Traffic Management Plan.* *(v) Roadworks ahead sign to be first sign to be put in position, work from there to centre of works.* *(v) Staff erecting traffic management to face oncoming traffic at all times and be vigilant.*	**Yes**
Construction Traffic	✓	✓	✓	(a) A number of vehicles, plants and machinery will be required on site during the Works. (b) The works will employ mobile plants with inherent risks to operatives. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i)The use of transport vehicles, plants, machinery and communication controls should be planned. The Contractor is anticipated to provide traffic management and routing of vehicles and personnel to reduce risk.* *(ii) Flashing beacons, mirrors, reversing sirens and reversing cameras to be in operation on applicable plant. Roll over protection where required.* *(iii) Working close to mobile plant: All ground workers should be adviced not to approach vehicles from the rear. The ground workers should approach from the side and signal to the driver, wait for the vehicle to stop and the driver to indicate for you to come forward.* *(iv) The Contrcator shall adviced all the operators / drivers to always park plant safely & secure especially if left on site overnight.*	**No**
Unauthorised Access by members of the public	✓	✓		(a) The works are located along the N52 and other adjacent roads in the project **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i)The Designer anticipates that unauthorized access during working hours will be prevented by the Contractor's supervisory personnel.* *(ii)The Contractor should ensure that appropriate measures are undertaken, to manage the flow of traffic along the carriageway with sufficient barriers, fencing, demarcation and signage are provided to secure the site where appropriate.* *(iii) Excavations which are left open for any period of time will need to be fenced off.*	**Yes**
Working close to the Public	✓	✓		(a) The nature of work involves working close to the Public **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Liaise with house owners & business etc where required.* *(ii) Ensure control of build up of muck/dust* *(iii) Ensure tools & equipment are secure when not in use* *(iv) Ensure work site & equipment is left safe/secure at end of working shift (exposed wiring, excavations/holes, reconnect water supply,housekeeping)*	**Yes**
Working in proximity to farm animals	✓			(a) The nature of work involves working close to farm animals. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Liaise with house owners & business etc where required.*	**No**

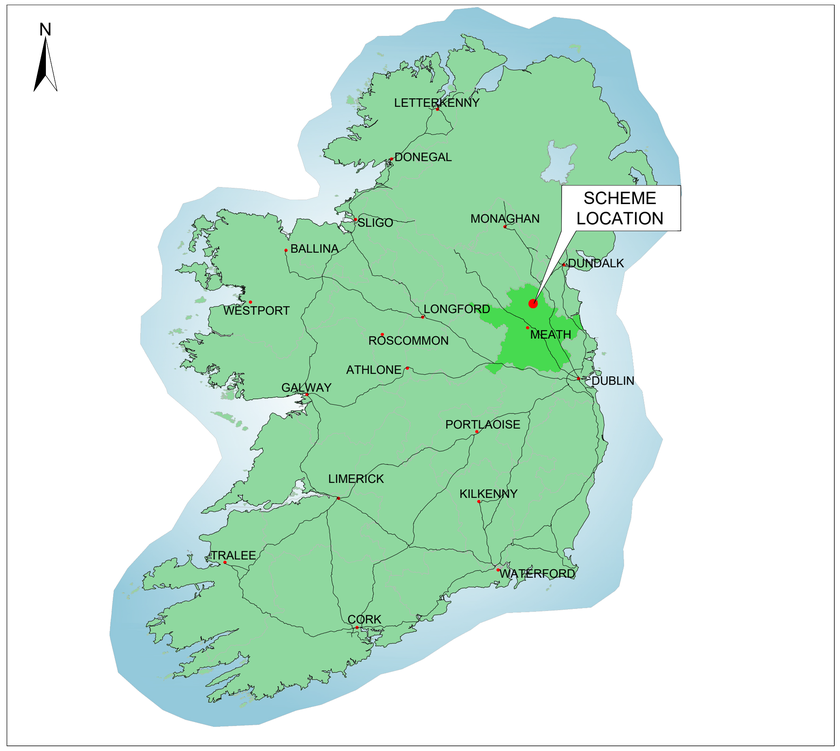
Identified Hazard or Risk.	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions	
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*	**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Plant and Machinery Operational Risk	✓	✓		(a) The works will employ mobile plants with inherent risks to operatives. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i)The use of transport vehicles, plants, machinery and communication controls should be planned.* *(ii) The Contractor is anticipated to provide routing of vehicles and personnel to reduce risk.* *(iii) Competent drivers to operate mobile plant and where required drivers to have CSCS tickets.* *(iv) All the plant opertors should be adviced to wear seatbelts and other required PPE.* *(v) Drivers of mobile plant to carry out pre-start checks on mobile plant.* *(vi) Flashing beacons, mirrors, reversing sirens and reversing cameras to be in operation on applicable plant. Roll over protection where required.* *(vii) The Contractor should adviced the plant/ machinery operatives/ drivers to remove all the keys from plant/ vehicle when not in opeartion* *(viii) Plant Refuelling to be undertaken only when the plant engine is turned off.* *(ix) No naked flames in vicinity of refuelling.* *(x) Gas bottles to be secure in position and have flash back arrestors fitted.* *(xi) All rotating shafts, augers, PTOs etc to be adequately guarded.* *(xii) Locking pins to be in use on quick release attachments* *(xiii) Transporter Trailers to be hitched to towing vehicles when loading and unloading* *(xiv) Bitumen boilers (when in operation) to be supervised at all times. Thermal cut out to be fitted to boiler. Bitumen Boiler to be returned to depot at close of working day* *(xv) Working close to mobile plant: All ground workers should be adviced not to approach vehicles from the rear. The ground workers should approach from the side and signal to the driver, wait for the vehicle to stop and the driver to indicate for you to come forward.* *(xvi) Always Park plant safely & secure especially if left on site overnight*	**Yes**
Lifting Operations	✓	✓		(a) The nature of work involves lifting operations. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Use certified lifting appliance (check valves) & lifting gear (chains/slings etc).* *(ii) Check equipment before use.* *(iii) Plan lift. Slinger/signaller to be used.Use guide ropes where required.* *(iv) Exclusion zone under lift area.* *(v) Weather conditions to be considered.*	**Yes**
Tree Cutting (Removal of trees, or overhanging branches, or verge trimming)	✓	✓		(a) The nature of work invloves tree cutting **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) All employees to be briefed before works starts on the task.* *(ii) All operatives to be suitably trained in the equipment they are operating.* *(iii) Correct work equipment shall be used for the relevant job.* *(iv) All Machines/Equipment to be certified, serviceable, checked prior to use* *(v) Ensure emergency stops and guards to be fitted to all equipment where required.* *(vi) All employees to wear appropriate Personal protective equipment.* *(vii) Ensure that the area, where the tree could fall into is closed off and that no employees or members of the public are in the vicinity.* *(viii) Be vigilant for overhead powerlines.* *(ix) Weather conditions to be considered.* *(x) Ensure that the work is always supervised. Park cutting equipment away from the public, where possible.* *(xi) Keep others clear of the cutting equipment and do not leave equipment unattended.* *(xii) Suitable traffic management erected to warn other road users of the works taking place.* *(xiii) Check area is clear, prior to using verge trimmer (Stones, structures, services etc).* *(xiv) Where required, staff to be trained in use of all Arrest / Fall Restraint equipment and any other equipment. E.g., M.E.W.P.*	**Yes**

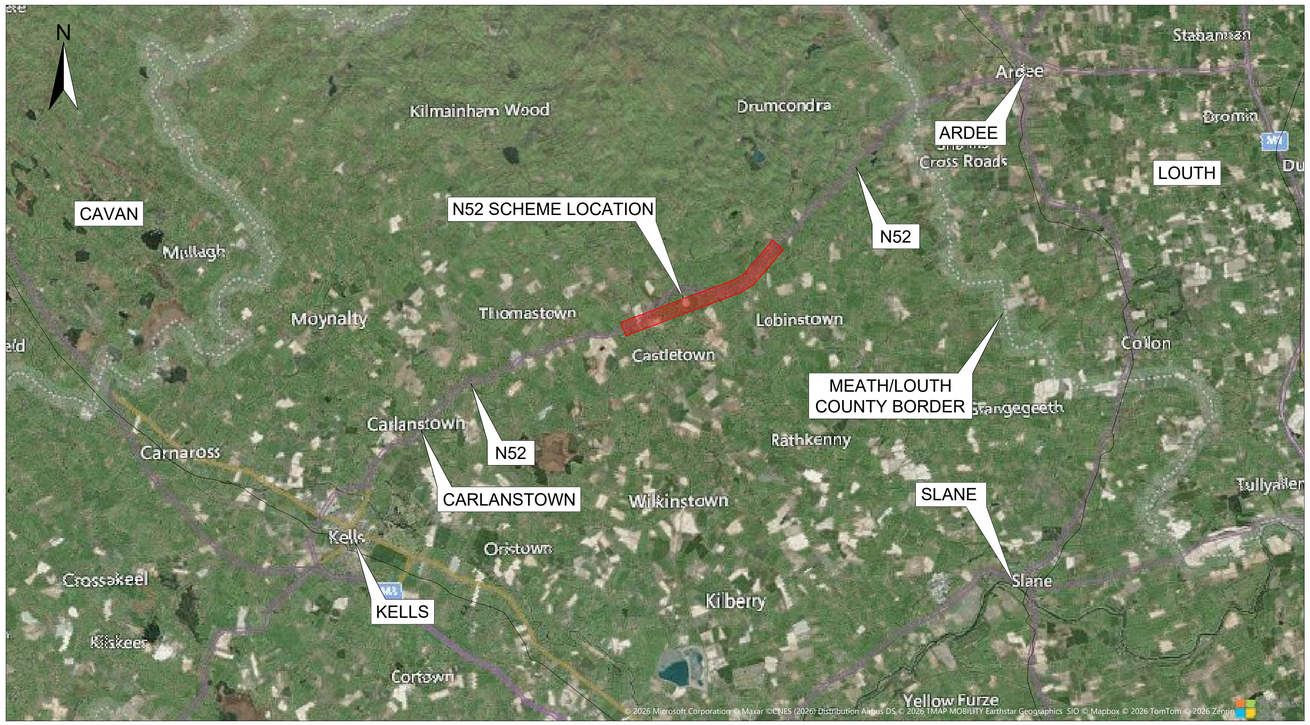
Identified Hazard or Risk.	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions	
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*	**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Excavations/Openings/Deep Drains	✓	✓		(a) The nature of work invloves Excavations/ Openings/ Deep Drains **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Trained personnel to identify underground services prior to commencement of works. (CSCS Trained for Locating Underground Services).* *(ii) All trenches/openings to be identified during site risk assessment.* *(iii) Excavations to be appropriately fenced off and signage erected.* *(iv) Batter back side of trenches.* *(v) Where below 1.25m the excavation must be adequately shored/trench box (may also be required for excavations less than 1.25m depending on work activity-assess).* *(vi) Ladders to be provided for access/egress.* *(vii) Spoil to be stored safely back from excavation.* *(viii) Wheel stops to be in place at tipping locations.* *(ix) No undermining of structures (e.g., walls).* *(x) Excavation to be inspected visually daily & recorded weekly on AF3 form.*	**Yes**
Slips and Trips	✓	✓		(a) Slips, trips and falls are a risk on uneven ground. **Action: The following measures may be taken to eliminate the hazard/ reduce risk:** *(i) All site operatives are expected to receive safety induction training.* *(ii) Appropriate signage should be erected to make site personnel aware of potential trip/slip hazards.* *(iii) Footway diversions should be well sign posted and follow routes that does not put the general public at risk of slips, trips or falls.*	**No**
Working with Hand Tools & Power tools	✓			(a) The nature of work invloves working with Hand Tools and Power Tools **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Always select the correct tool for the relevant job.* *(ii) Hand tools/Power tools to be in good condition. Guards to be in place.* *(iii) Staff member to be trained/informed in use e.g., consaw training.* *(iv) Only 110volt appliances allowed to be used on site if required.* *(v) Vibration controls when using Jackhammers. (Alternating work).* *(vi) Anti-whip lines to be installed on air compressor connections.* *(vii) Dust suppression to be in place where required. Correct PPE to be worn.* *(viii) Ensure protective guards are present on power tools where required. E.g., Angle Grinders.*	**Yes**
Manual Handling	✓			(a) The nature of work invloves manual handling **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Risk assessment to be carried out.* *(ii) Mechanical aids are to be provided where necessary .* *(iii) All staff to be trained in manual handling.* *(iv) Work to be organised to reduce manual handling where possible.*	**No**

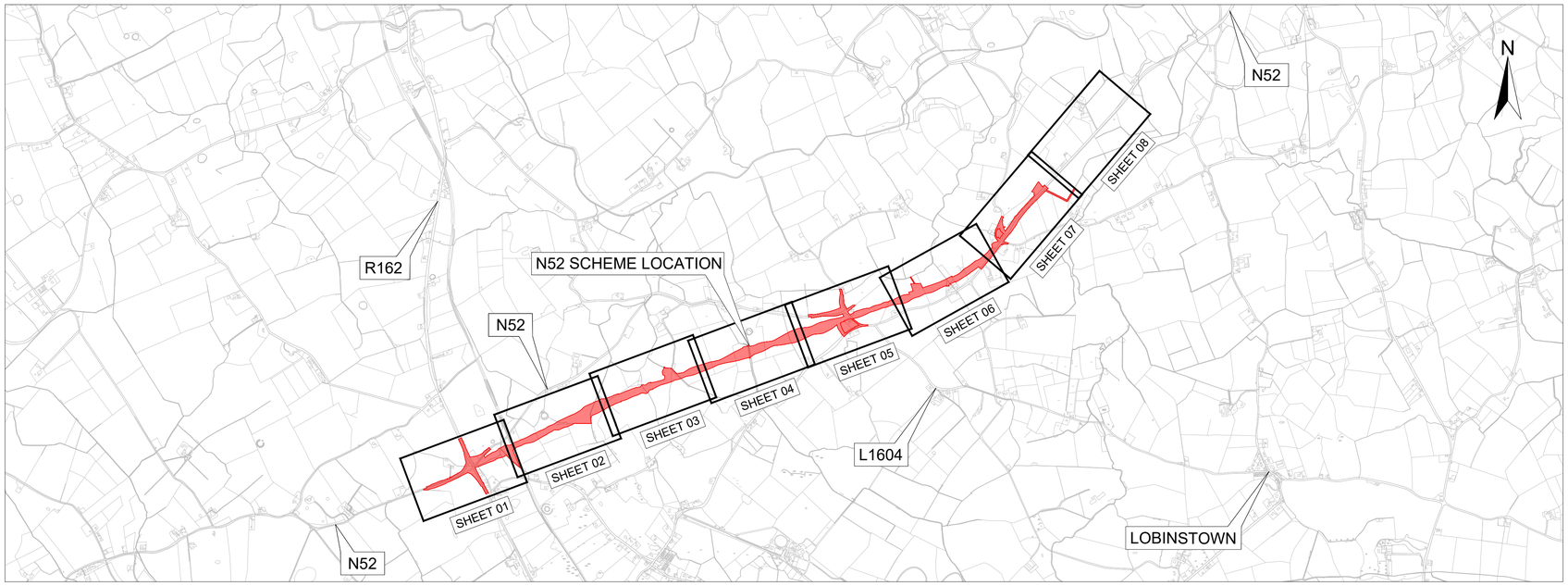
Identified Hazard or Risk.	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions	
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*	**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Working near Underground MV/LV cables and live services	✓	✓		(a) The project site includes Low, Medium Voltage Underground service lines (b) The project includes Eir service lines **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Refer to drawings for details on utilities.* *(ii) The utility service locations are indicative only. The Contractor shall verify all site locations prior to commencing work.* *(iii) It is anticipated that the Contractor will carry out their own surveys including the use of Cable Detectors and hand digs where appropriate to determine the location of underground utilities while excavation are being carried out. This will reduce risk of electrocution/exposure to live services to the Contractor.* *(iv) Underground services to be identified shall be marked with paint/signage.* *(v) Trained personnel to identify underground services prior to commencement of works. (CSCS Trained for Locating Underground Services)* *(vi) Contact service provider if required to divert/shut off.* *(vii) Hand digging to be carried out to expose underground service* *(viii) Isolate power by lockout/Tagout system (see relevant SOP).* *(ix) Barriers and warning signs to be installed around service appliances under repair.*	**Yes**
Confined Spaces	✓	✓		(a) The nature of work invloves working in confined spaces **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Carry out site assessment & identify possible confined spaces.* *(ii) Carry out site risk assessment.* *(iii) Draw up & implement confined spaces procedure.* *(iv) Ensure rescue procedures in place.*	**No**
Working near septic tanks and wells	✓	✓		(a) The execution of the works involves working near septic tanks and wells. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Contractor must conduct a non-invasive survey before heavy plant access.* *(ii) Initial vegetation clearance in unverified zones must be done using lightweight handheld tools only.* *(iii) Discovered wells or septic voids must immediately be fitted with temporary load-bearing covers if found any.* *(iv) Rigid, high-visibility guardrails and edge protection must be erected around any exposed openings.*	**Yes**
Vibration/ Noise	✓	✓		(a) Vibration and noise are inherent risks associated with the nature of the Works required. Residual risk remains as it is not possible to eliminate noise and vibration. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Site assessment should be carried out and possible sources should be identified.* *(ii) Source of noice/ vibration should be removed/ reduce where possible.* *(iii) Site personnel should be informed of hazards.* *(iv) The contractor is anticipated to provide suitable PPE to operatives in close proximity to the work and consider regular servicing of items of plant and fitting silencers to plant.*	**No**
Dust/Fumes	✓	✓		(a) Dust and fumes are inherent risks associated with the nature of the Works required. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) The contractor is anticipated to provide suitable PPE in the form of dust masks which are to be worn by operatives in proximity to the works.* *(ii) Keep control of dust exposure by dampening the environments.* *(iii) Ensure adequate ventilation where required. Dust extraction unit to be in place where adequate ventilation cannot be obtained.* *(iv) Water suppression when using consaw.* *(v) Waste timber, shavings and sawdust should not be allowed to accumulate.*	**No**
Fire & Emergency	✓			(a) The nature of work invloves fire and emergency **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Assembly point to be clearly located/agreed.* *(ii) Appropriate fire extinguisher & first aid kit to be available with crew.*	**No**

Identified Hazard or Risk.	Exposed Party			Evaluation, Design Decisions and / or Alternative Actions	
(P) indicates a Particular Risk listed in Schedule 1 of the Regulations	Contractor	Public	Maintainer	Description of risk or hazardous activity *Describe the design decisions, anticipated construction methods and / or alternative actions*	**Is the risk of a substantial or unusual nature such that information should be provided to the PSDP?**
Lack of site security	✓			(a) The project may subject to lack of security **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Vehicles to be locked when not in use.* *(ii) Fencing around work area.* *(iii) Signage to be used to warn publlic.* *(iv) Arrangements to be made to secure site overnighht / during holidays.*	**No**
Weils Disease and other mammal borne diseases	✓			(a) The rural nature of the site could provide the environment for vermin to be present. (b) The nature of the site and work could cause Weil's disease and other infectious diseases harboured by soil, water, vegetation or animal. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) It is assumed that the Contractor will carry out the necessary precautions such as provision of hygiene information and the ensuring suitable welfare facilities are provided for workers.* *(ii) All site operatives should be advised to wear appropriate PPE such as gloves and informed of the importance of washing hands before eating to avoid the risk of contracting Weil's disease and other waterborne diseases.*	**No**
Rodent Infestation/Animals	✓			(a) The project area is subject to rodent and animal infestations **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Check for evidence of rodent infestation during site risk assessment. If available, check existing monitoring points for activity.* *(ii) Decontamination of infected area if required.* *(iii) Appropriate PPE to be worn at all times in infestation area (overalls, gloves, mask).* *(iv) Open cuts/scratches to be covered up at all times.* *(v) No eating/smoking in vicinity of infested area.* *(vi) Contact local Authority Dog Warden for assistance with dogs if required.*	**No**
Night Time Working	✓	✓		(a) Night Works are anticipated as part of the Works. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) Adequate lighting shall be provided for all works carried out at night.* *(ii) Operatives will need to be well rested and experienced in conducting such works at night.*	**No**
Poor Weather Conditions	✓			(a) The nature of the work involves exposure to adverse weather conditions. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) In adverse weather conditions (fog, heavy rain, snow, ice) adjust/increase warning signage according* *(ii) Ensure all signage/guard rails erected to be maintained in good condition & clean*	**No**
Welfare	✓			(a) No water, electrical or foul services are readily available on the site. **Action: The following measures will be taken to eliminate the hazard/ reduce risk:** *(i) It is anticipated that the Contractor will provide independent welfare facilities.*	**No**
				Other parties please take note: These are designer's risk evaluations of design options carried out in-house for the purpose of our complying with designers' duties under the Safety, Health and Welfare at Work (Construction) Regulations 2013-2021. The evaluations relate only to those aspects/elements of the project which Roughan & O'Donovan are responsible for designing under the terms of our appointment by our client. Other parties should not rely on these evaluations for their own purposes; in particular, contractors, who must deal with and control all risks arising during construction, must carry out their own definitive risk assessments ab initio for that purpose.	

APPENDIX B
DRAWINGS







An Roinn Iompair
Department of Transport

Bonneagar Iompair Éireann
Transport Infrastructure Ireland

comhairle chontae na mí
meath county council

No.	Revision	Date	By	Chk'd	App'd

ROD ROUGHAN & O'DONOVAN
AECOM

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UK t +44 (0) 113 360 1720

Drawn	Designed	Checked	Approved	Suitability Code - Description
PC	SR	IF	DOR	D2 - Tender

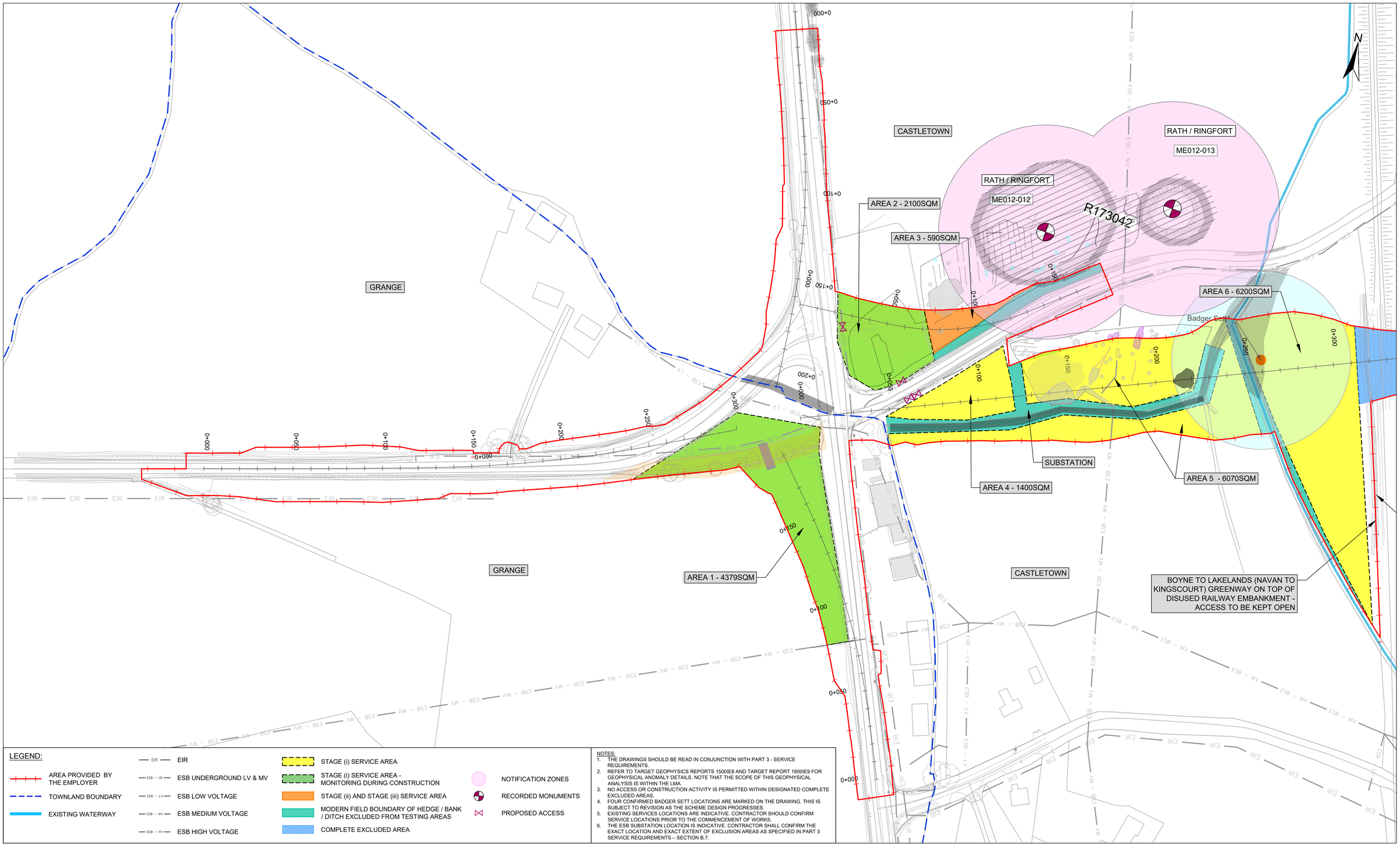
Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	LOCATION PLAN
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - GEN - SW_AE - DR - CH - 500000
Scale (A1)	NTS
Date:	25/06/2026
Job No:	25.167
Rev:	T01

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28 July 2026 09:57:27

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DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- AREA PROVIDED BY THE EMPLOYER
- TOWNLAND BOUNDARY
- EXISTING WATERWAY
- EIR
- ESB UNDERGROUND LV & MV
- ESB LOW VOLTAGE
- ESB MEDIUM VOLTAGE
- ESB HIGH VOLTAGE
- STAGE (i) SERVICE AREA
- STAGE (i) SERVICE AREA - MONITORING DURING CONSTRUCTION
- STAGE (ii) AND STAGE (iii) SERVICE AREA
- MODERN FIELD BOUNDARY OF HEDGE / BANK / DITCH EXCLUDED FROM TESTING AREAS
- COMPLETE EXCLUDED AREA
- NOTIFICATION ZONES
- RECORDED MONUMENTS
- PROPOSED ACCESS

NOTES:
1. THE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH PART 3 - SERVICE REQUIREMENTS.
2. REFER TO TARGET GEOPHYSICS REPORTS 1500IE8 AND TARGET REPORT 1900IE9 FOR GEOPHYSICAL ANOMALY DETAILS. NOTE THAT THE SCOPE OF THIS GEOPHYSICAL ANALYSIS IS WITHIN THE LMA.
3. NO ACCESS OR CONSTRUCTION ACTIVITY IS PERMITTED WITHIN DESIGNATED COMPLETE EXCLUDED AREAS.
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PC	SR	IF	DOR	D2 - Tender

Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 01 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500101
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
Rev:	T01

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Not on SMR

N

HEADSTOWN

RATH / RINGFORT

ME012-014

CASTLETOWN

AREA 10 - 8,058SQM

HEADSTOWN STREAM

RATH / RINGFORT

ME012-052
ME012-052001

MATCH

AREA 7 - 6080SQM

AREA 9 - 5,695SQM

AREA 12 - 5,400SQM

AREA 8 - 9200SQM

LINE

CASTLETOWN

BOYNE TO LAKELANDS (NAVAN TO KINGSCOURT) GREENWAY ON TOP OF DISUSED RAILWAY EMBANKMENT - ACCESS TO BE KEPT OPEN

LEGEND:

- AREA PROVIDED BY THE EMPLOYER
- TOWNLAND BOUNDARY
- EXISTING WATERWAY
- EIR — EIR
- ESB - UG — ESB UNDERGROUND LV & MV
- ESB - LV — ESB LOW VOLTAGE
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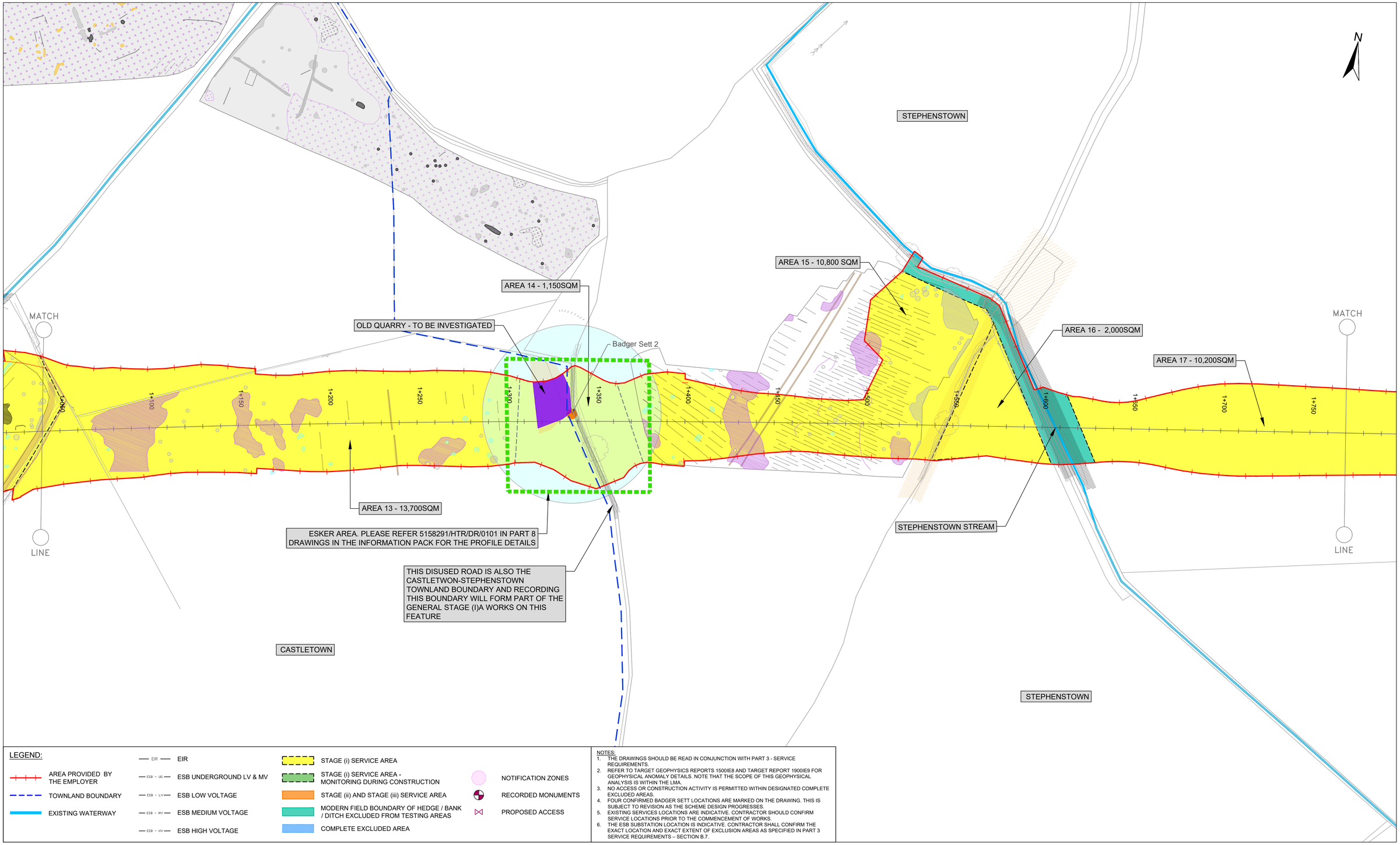
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PC	SR	IF	DOR	D2 - Tender

Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 02 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500102
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
Rev:	T01

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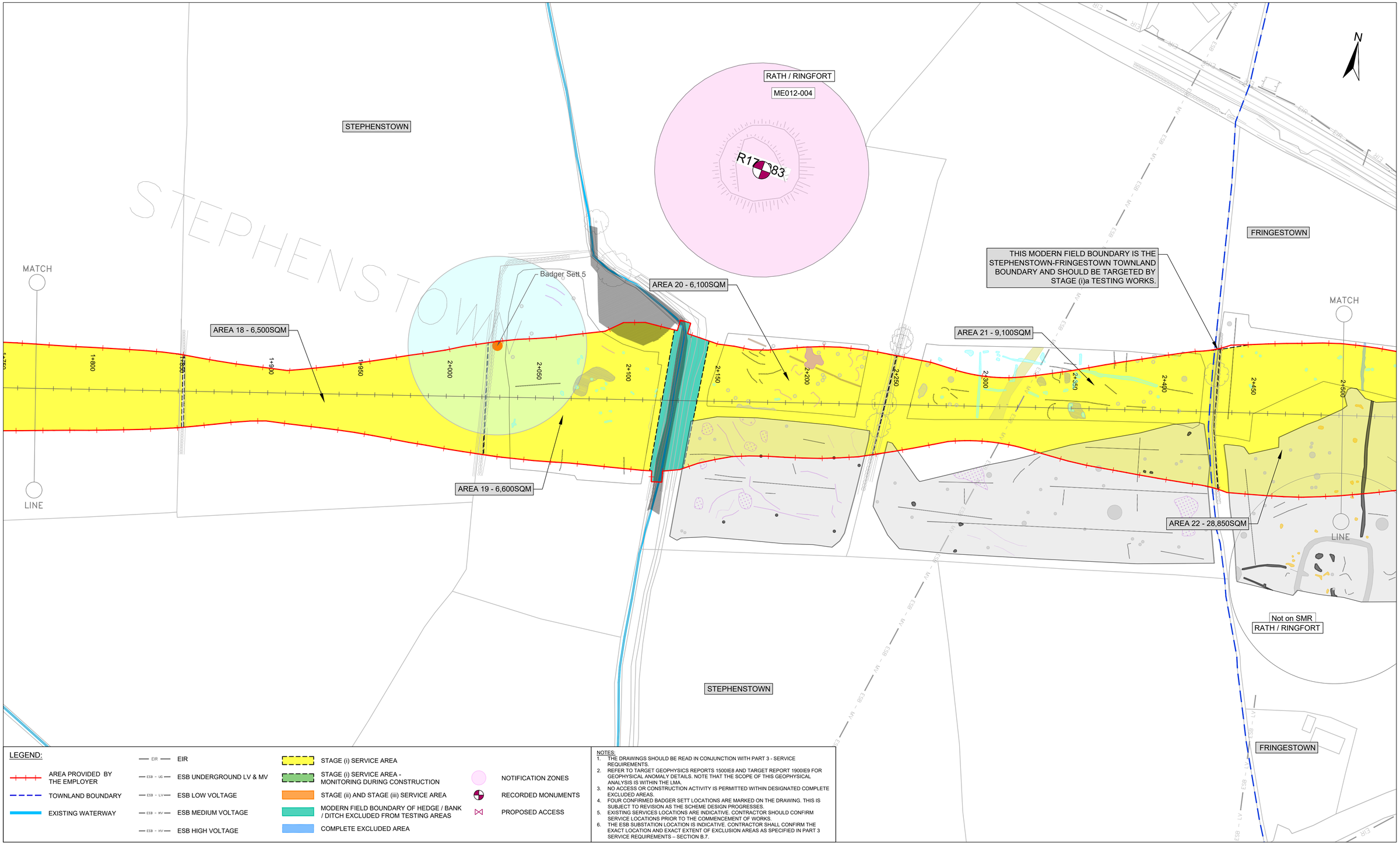
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PC	SR	IF	DOR	D2 - Tender

Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 03 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500103
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
Rev:	T01

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Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 04 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500104
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
Rev:	T01

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FRINGESTOWN

AREA 23 - 3,600SQM

THIS CURRENTLY PRIVATE GARDEN AREA (INCLUDING THE LARGE HEDGE) OF 290SQM IS PART OF THE AREA 24 - 4,002SQM

RATH / RINGFORT

ME012-053

Area 24. 4,002 sqm

AREA 26 - 15,040SQM

AREA 25 - 5,320SQM

AREA 22 - 28,850SQM

FRINGESTOWN

FRINGESTOWN

MATCH

MATCH

LINE

LINE

ESB - HV

ESB - LV

EIR

N

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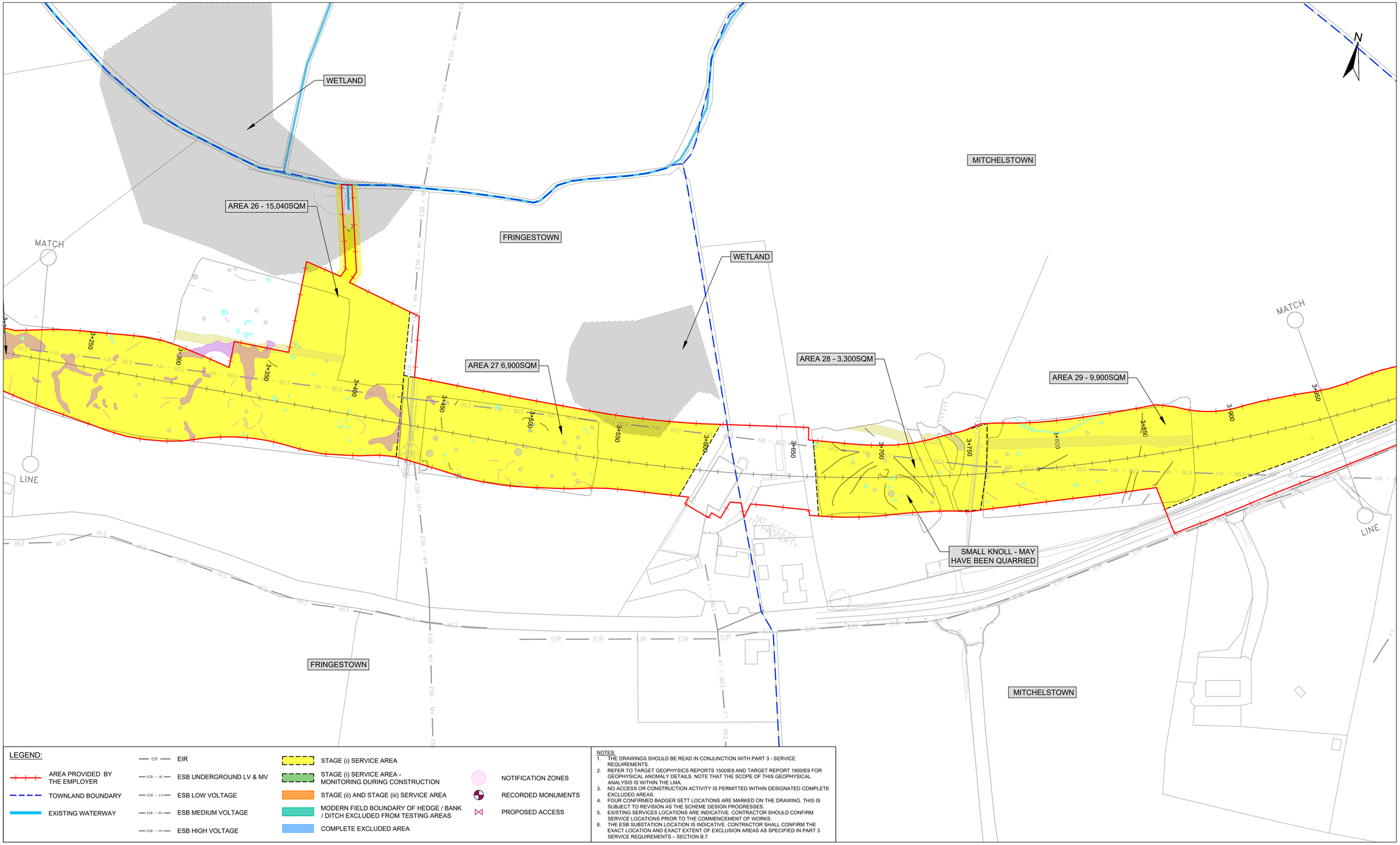
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PC	SR	IF	DOR	D2 - Tender

Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 05 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500105
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
Rev:	T01

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LEGEND:

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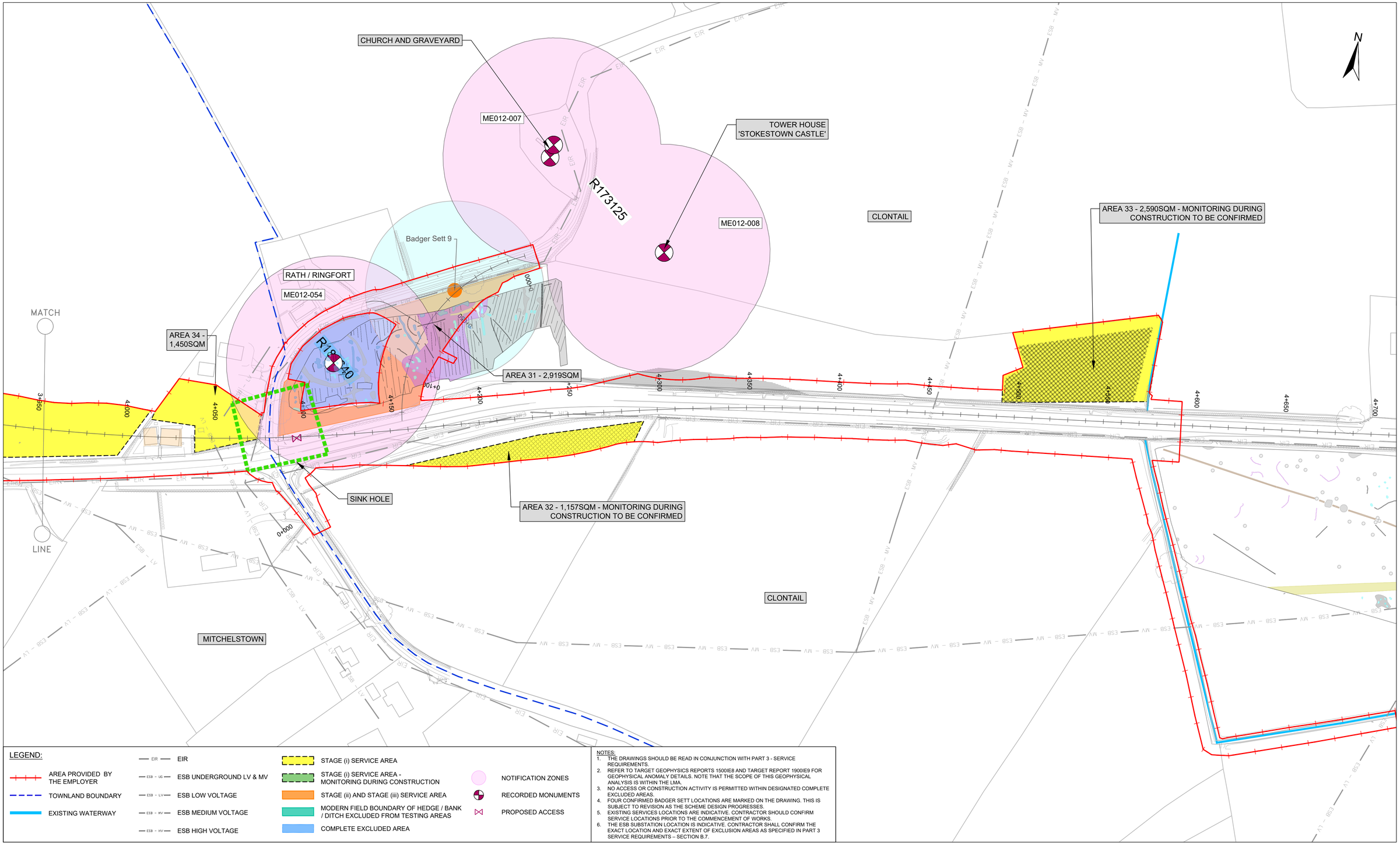
Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 06 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500106
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
Rev:	T01

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Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 07 OF 08

Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
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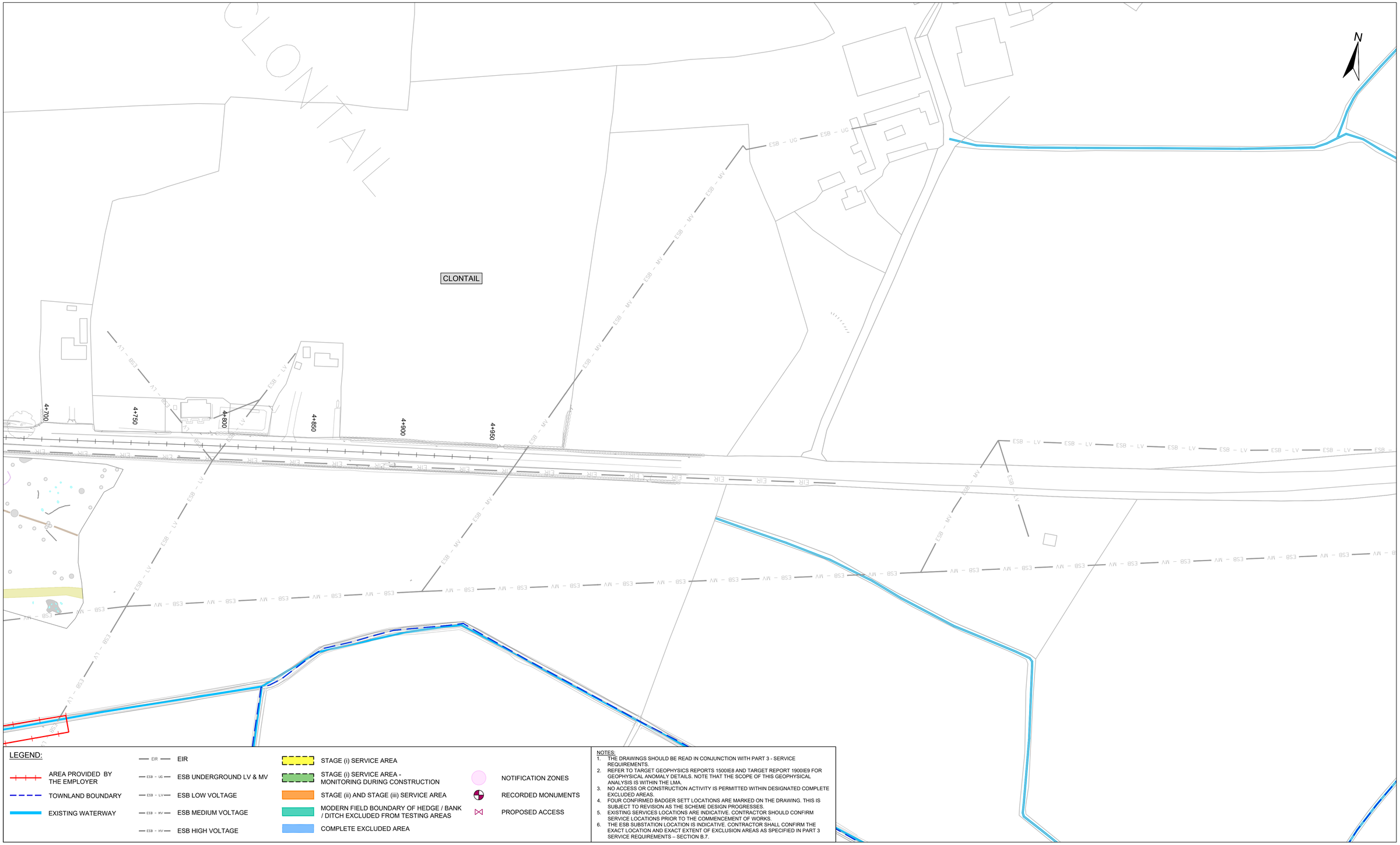
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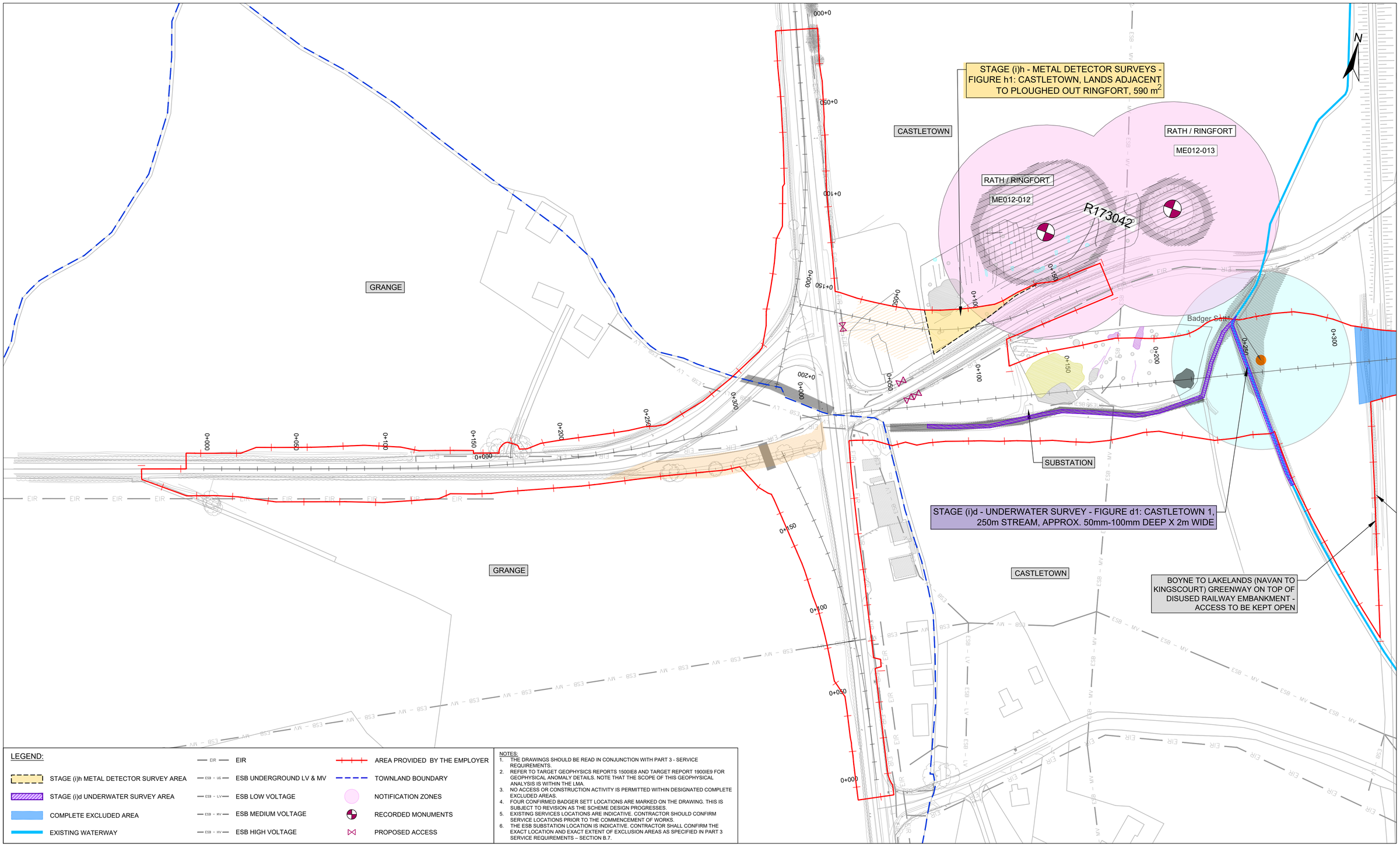
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Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 08 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500108
Scale (A1)	1:1000
Date:	04/08/2026
Job No:	25.167
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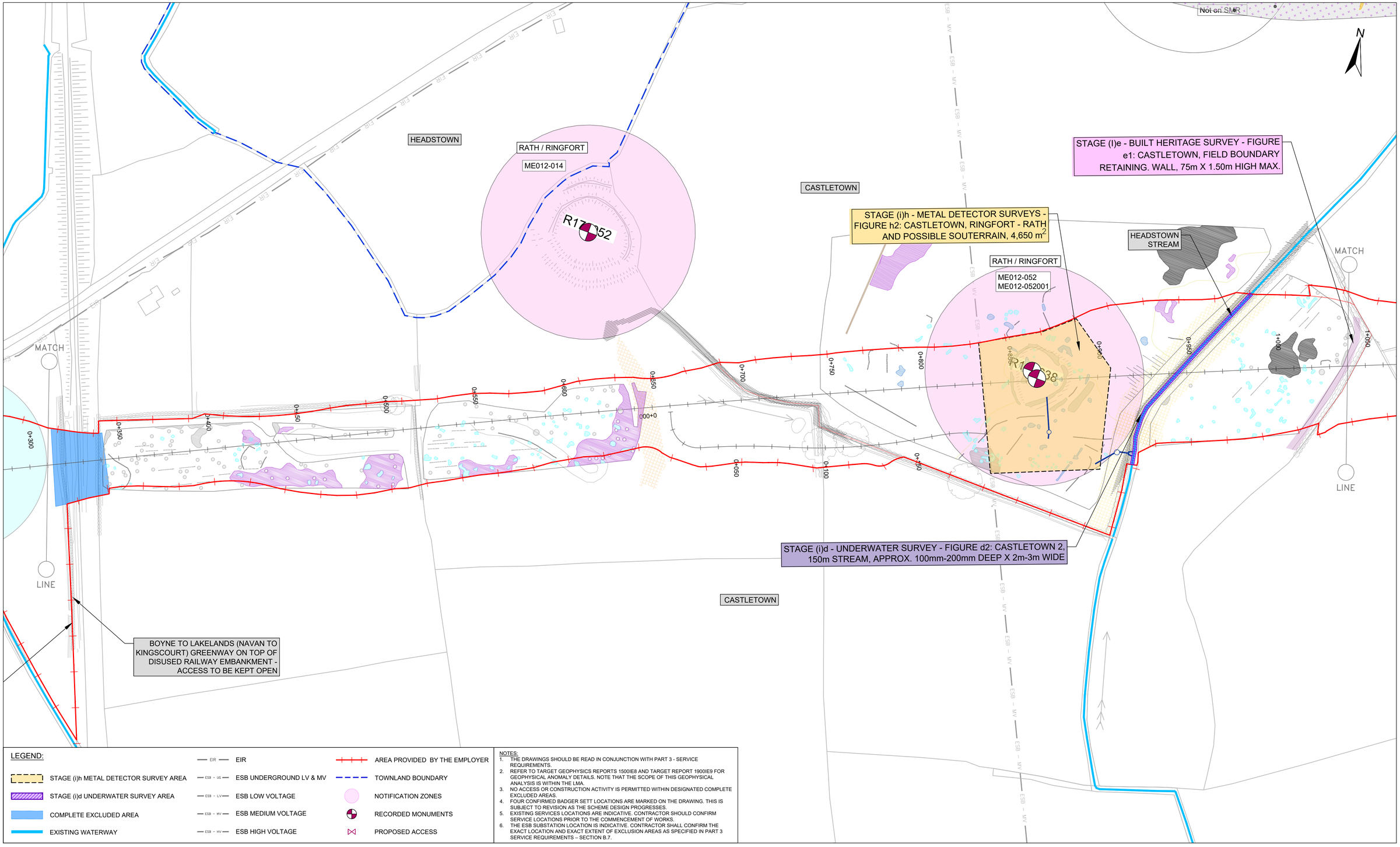
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Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 01 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500111
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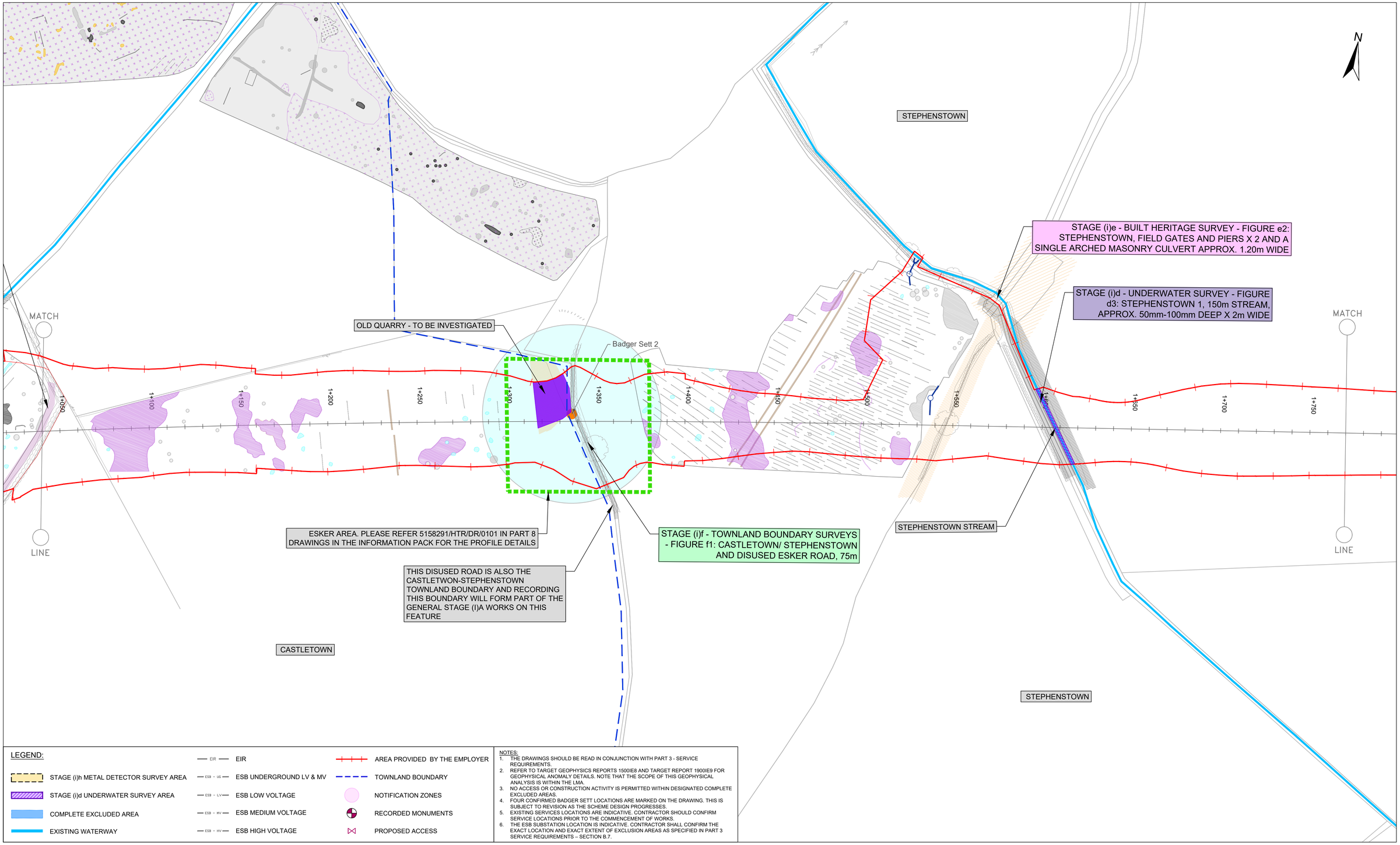
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Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 02 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500112
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Date:	13/10/2026
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Project Stage	TENDER
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Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 03 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500113
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STEPHENSTOWN

RATH / RINGFORT
ME012-004

R17-083

FRINGESTOWN

THIS MODERN FIELD BOUNDARY IS THE STEPHENSTOWN-FRINGESTOWN TOWNLAND BOUNDARY AND SHOULD BE TARGETED BY STAGE (i)a TESTING WORKS.

MATCH

LINE

Badger Sett 5

1+750 1+800 1+850 1+900 1+950 2+000 2+050 2+100 2+150 2+200 2+250 2+300 2+350 2+400 2+450 2+500

STAGE (i)d - UNDERWATER SURVEY - FIGURE d4: STEPHENSTOWN 2, 150m STREAM, APPROX. 100mm-200mm DEEP X 2m-3m WIDE

STAGE (i)f - TOWNLAND BOUNDARY SURVEYS - FIGURE f2: STEPHENSTOWN/ FRINGESTOWN MODERN HEDGE-BANK, 80m

Not on SMR
RATH / RINGFORT

STEPHENSTOWN

FRINGESTOWN

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Project Stage	TENDER
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Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 04 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500114
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STAGE (i)e - BUILT HERITAGE SURVEY - FIGURE e3: FRINGESTOWN, UNDERPASS BENEATH N52 MAYBE IMPACTED BY THE SCHEME,15m LONG, APPROX. 1.50m WIDE.

STAGE (i)e - BUILT HERITAGE SURVEY - FIGURE e4: FRINGESTOWN, ROADSIDE HERRINGBONE PATTERN STONE WALLING 160m LONG X 1m HIGH MAX., IVY CLEARANCE AND TRAFFIC MANAGEMENT REQUIRED.

STAGE (i)h - METAL DETECTOR SURVEYS - FIGURE h3: FRINGESTOWN, RINGFORT -RATH, 2,500 m²

FRINGESTOWN

RATH / RINGFORT
ME012-053

FRINGESTOWN

FRINGESTOWN

MATCH

MATCH

LINE

LINE

LEGEND:

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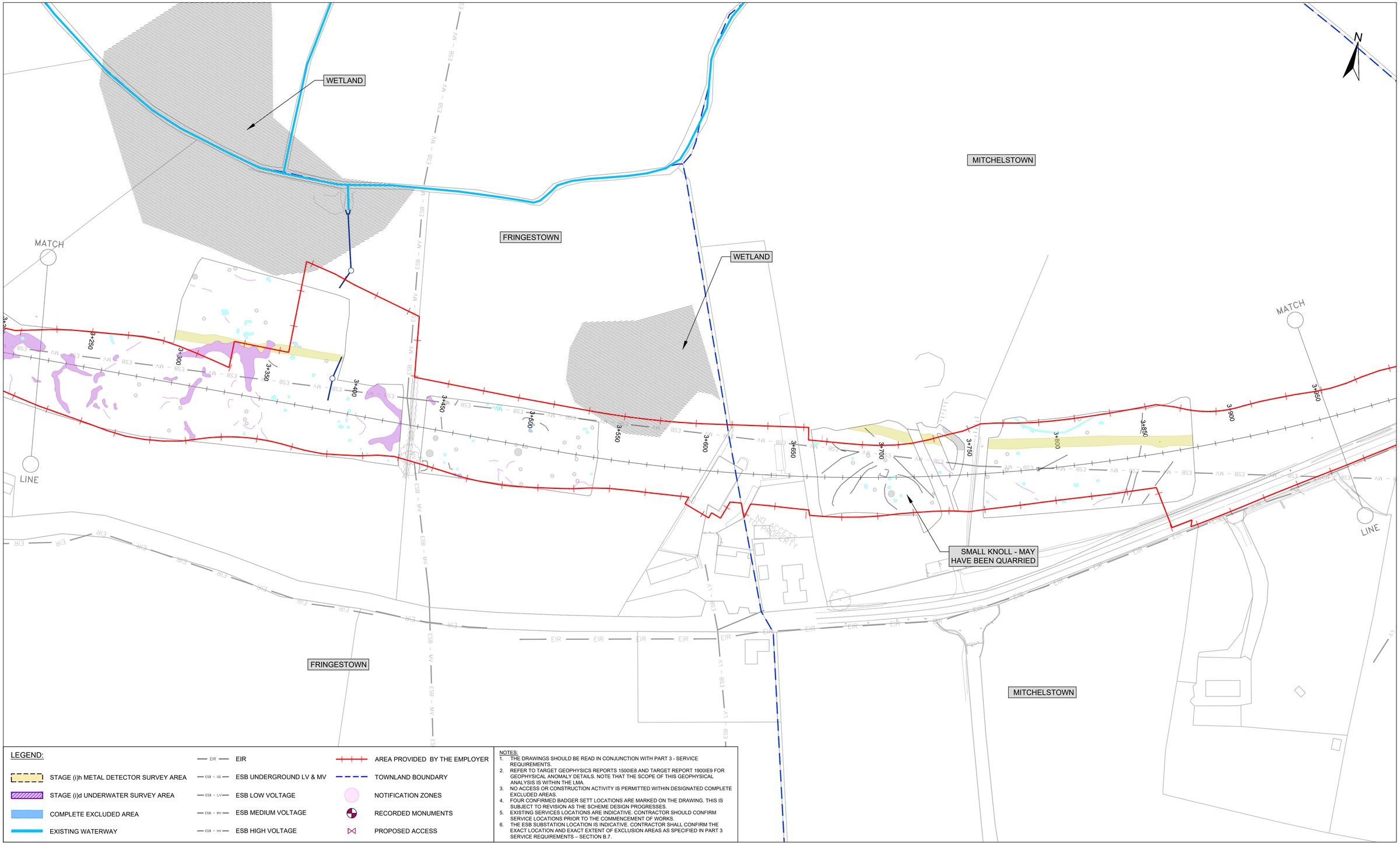
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Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 05 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500115
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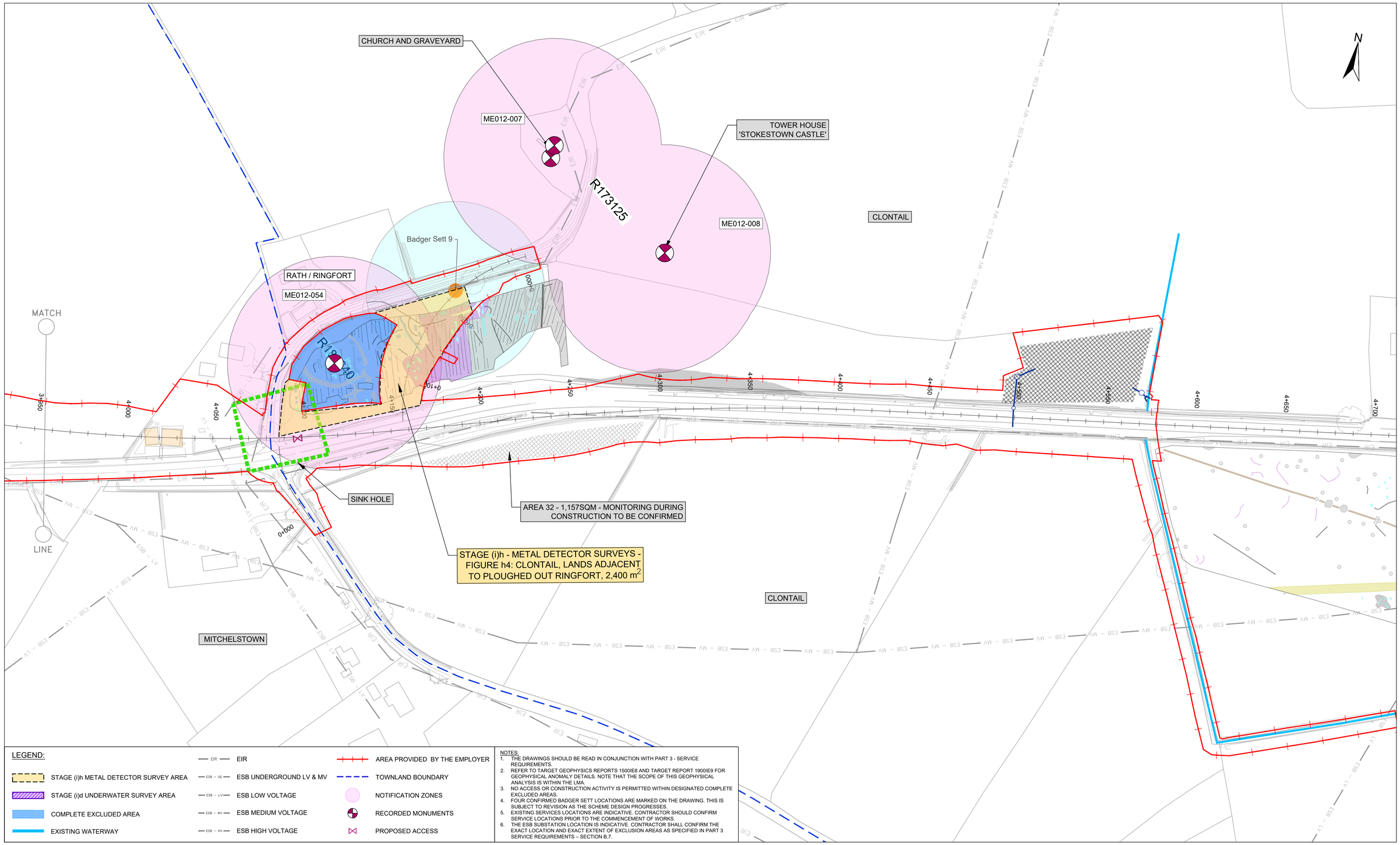
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Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 06 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500116
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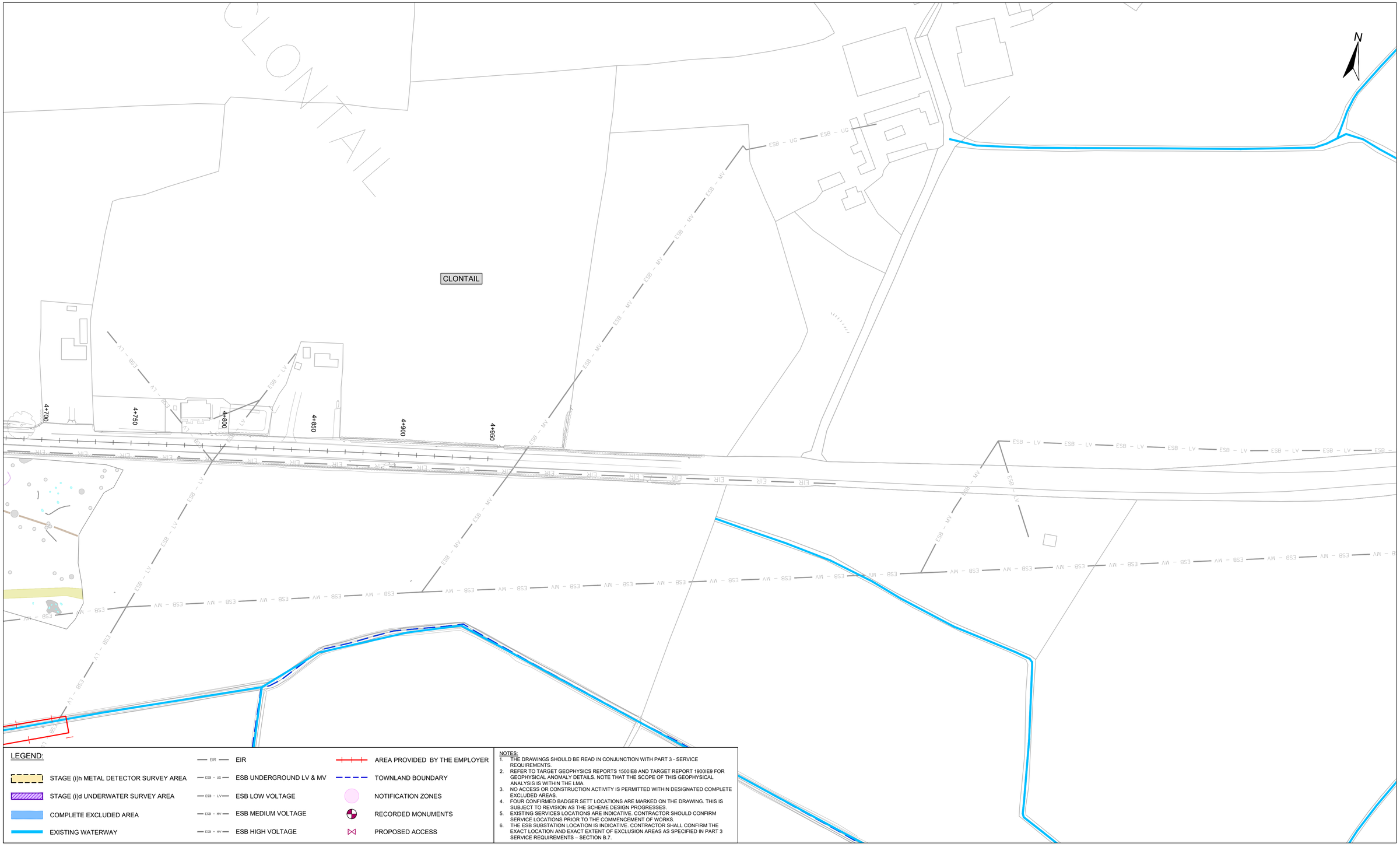
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NOTES:

1. THE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH PART 3 - SERVICE REQUIREMENTS.
2. REFER TO TARGET GEOPHYSICS REPORTS 1500IE8 AND TARGET REPORT 1900IE9 FOR GEOPHYSICAL ANOMALY DETAILS. NOTE THAT THE SCOPE OF THIS GEOPHYSICAL ANALYSIS IS WITHIN THE LMA.
3. NO ACCESS OR CONSTRUCTION ACTIVITY IS PERMITTED WITHIN DESIGNATED COMPLETE EXCLUDED AREAS.
4. FOUR CONFIRMED BADGER SETT LOCATIONS ARE MARKED ON THE DRAWING. THIS IS SUBJECT TO REVISION AS THE SCHEME DESIGN PROGRESSES.
5. EXISTING SERVICES LOCATIONS ARE INDICATIVE. CONTRACTOR SHOULD CONFIRM SERVICE LOCATIONS PRIOR TO THE COMMENCEMENT OF WORKS.
6. THE ESB SUBSTATION LOCATION IS INDICATIVE. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION AND EXACT EXTENT OF EXCLUSION AREAS AS SPECIFIED IN PART 3 SERVICE REQUIREMENTS – SECTION B.7.

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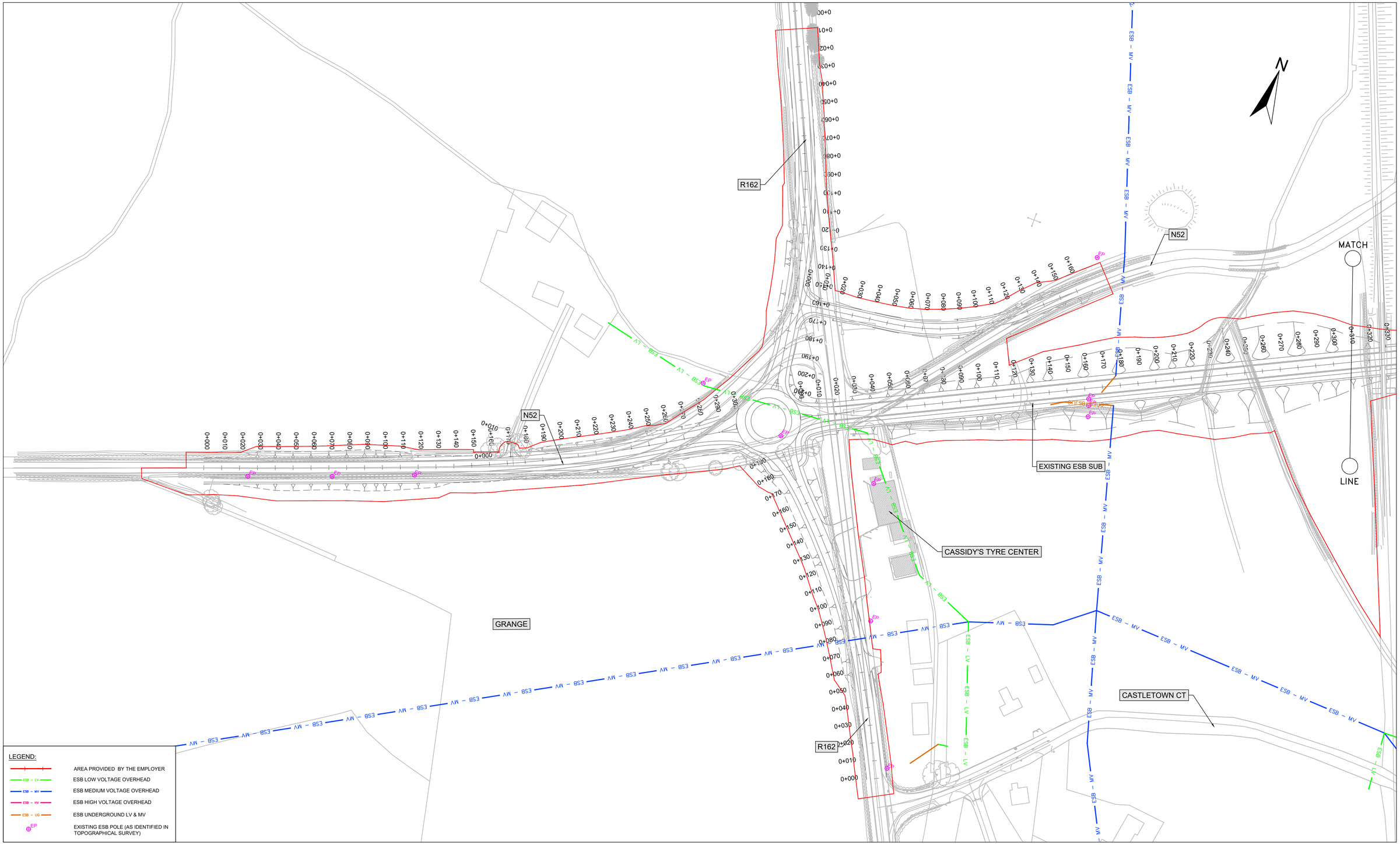
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AK	SR	IF	DOR	D2 - Tender

Project Stage	TENDER
Project Title	N52 GRANGE TO CLONTAIL ROAD SCHEME
Drawing Title	ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT - STAGE (i)-(iv) SHEET 08 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number: N52GC - RODA - EHR - SW_AE - DR - CH - 500118
Scale (A1)	1:1000
Date:	13/10/2026
Job No:	25.167
Rev:	T01

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13 October 2026 14:35:55 \\RODDUBFP1\J\2025\25167\25167-02_WIP\01 MODELS\01 CAD\01 DWG\01 STG 1 - PH5 AWD\02. 100 - ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT STAGE (i)–(IV)\1. DWG\N52GC-RODA-EHR-SW_AE-DR-CH-500111 - 500118 (ARCHAEOLOGICAL CONSULTANCY SERVICES CONTRACT STAGE (.DWG

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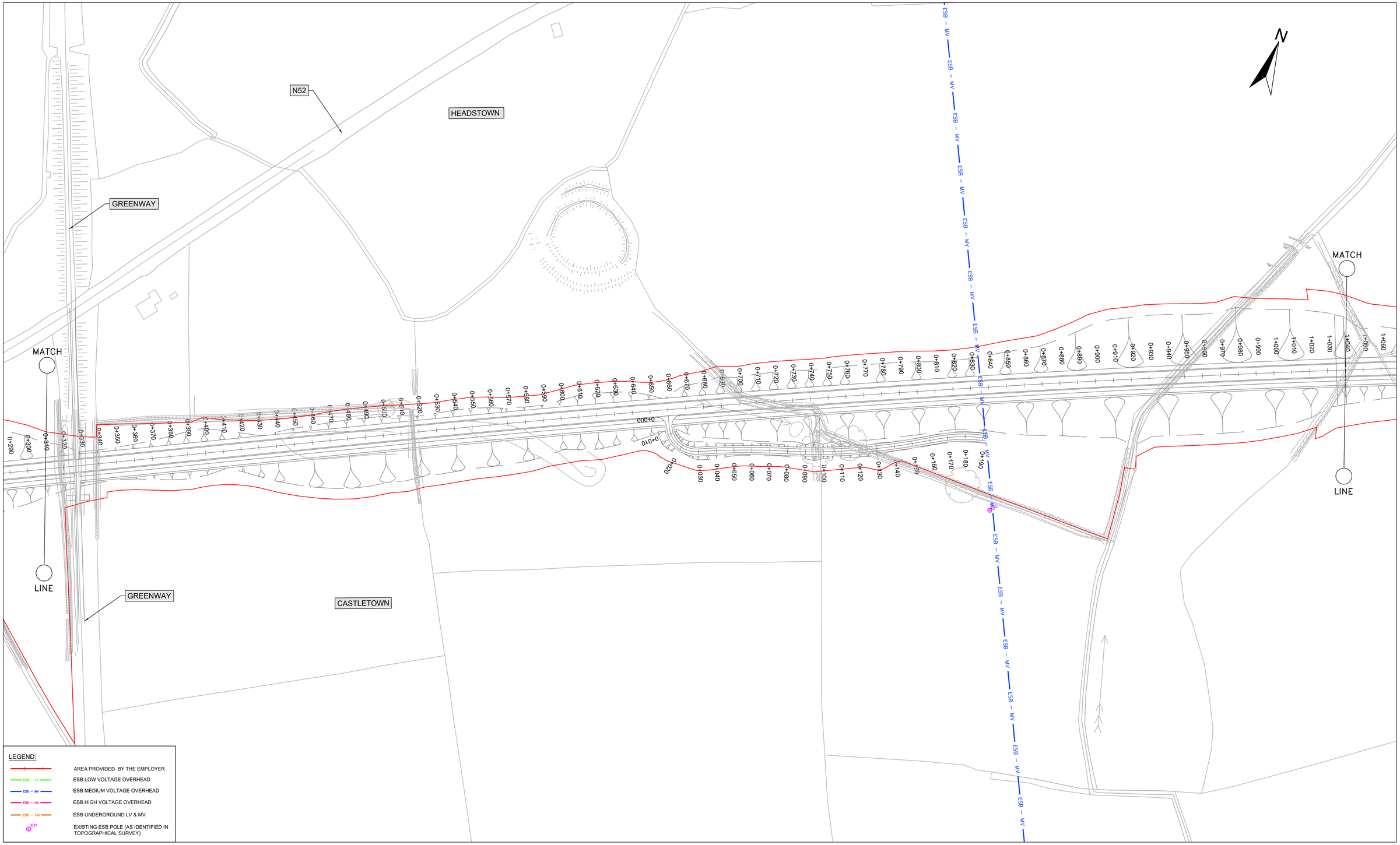
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Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES ESB SERVICES SHEET 01 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500101
Scale (A1)	1:1000
Date:	18/03/2026
Job No:	25.167
Rev:	P01

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PC	SR	IF	DOR	S0 - Work In Progress

Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
ESB SERVICES
SHEET 02 OF 08

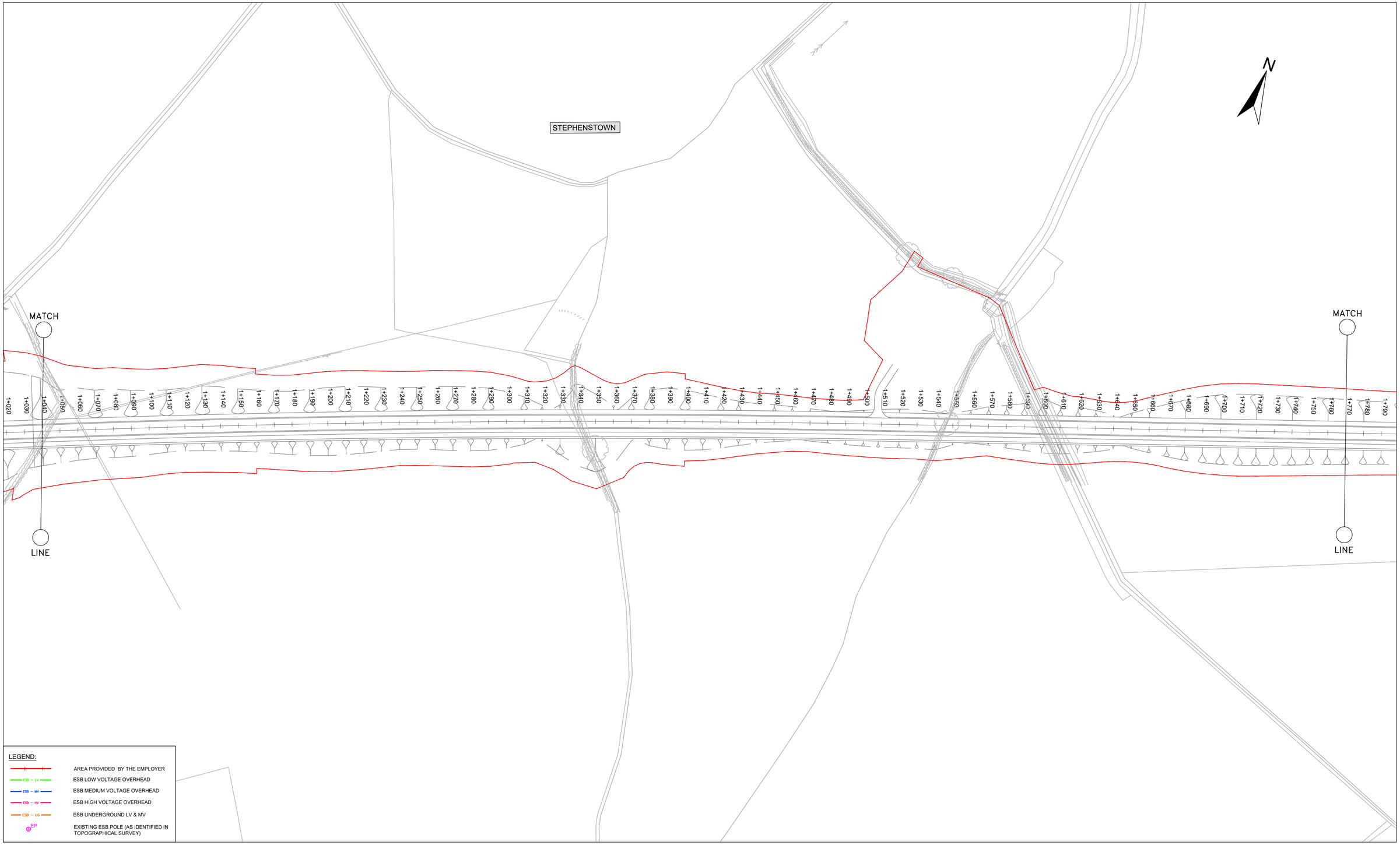
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Scale (A1): 1:1000 | Date: 18/03/2026 | Job No: 25.167 | Rev: P01

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Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
ESB SERVICES
SHEET 03 OF 08

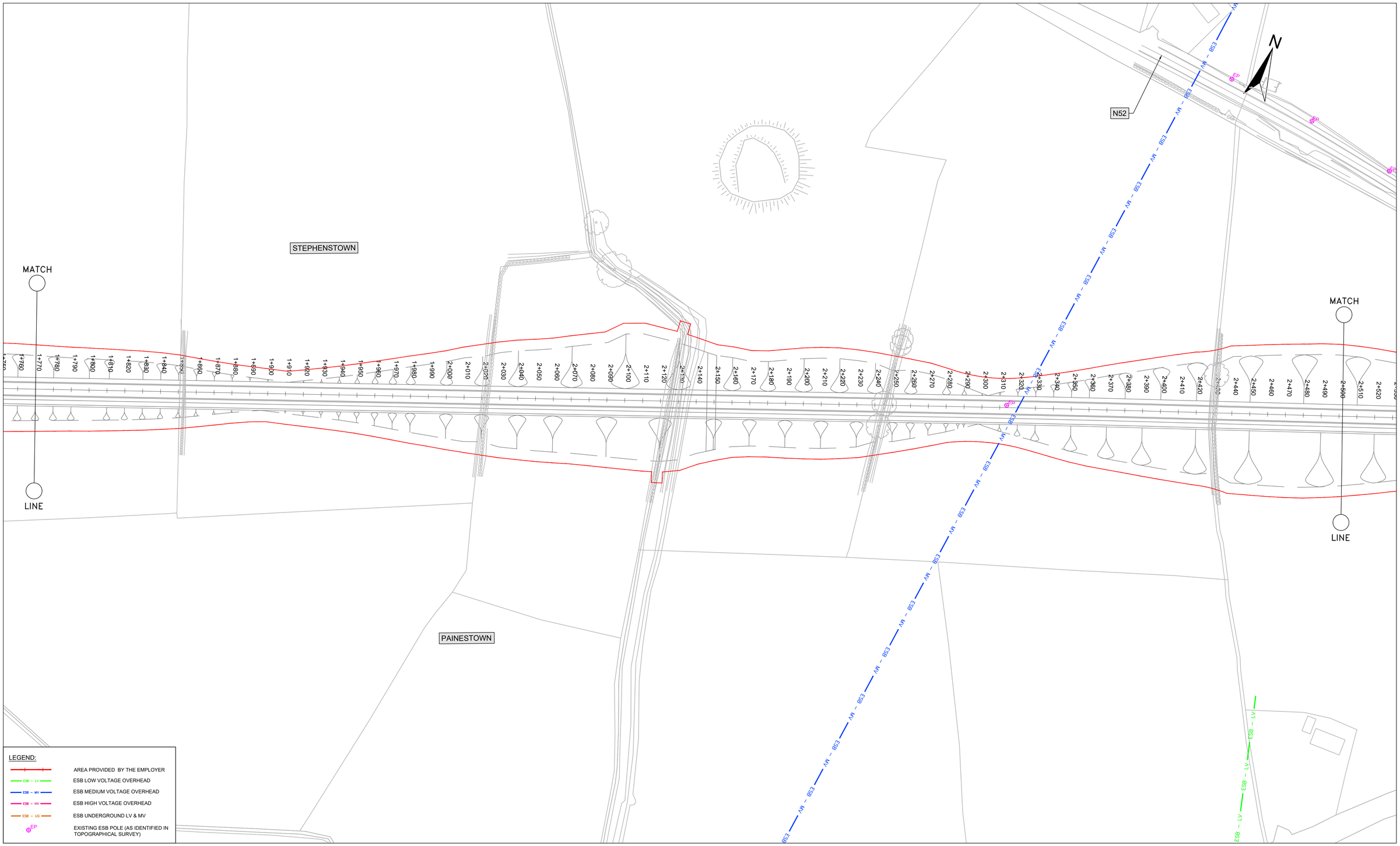
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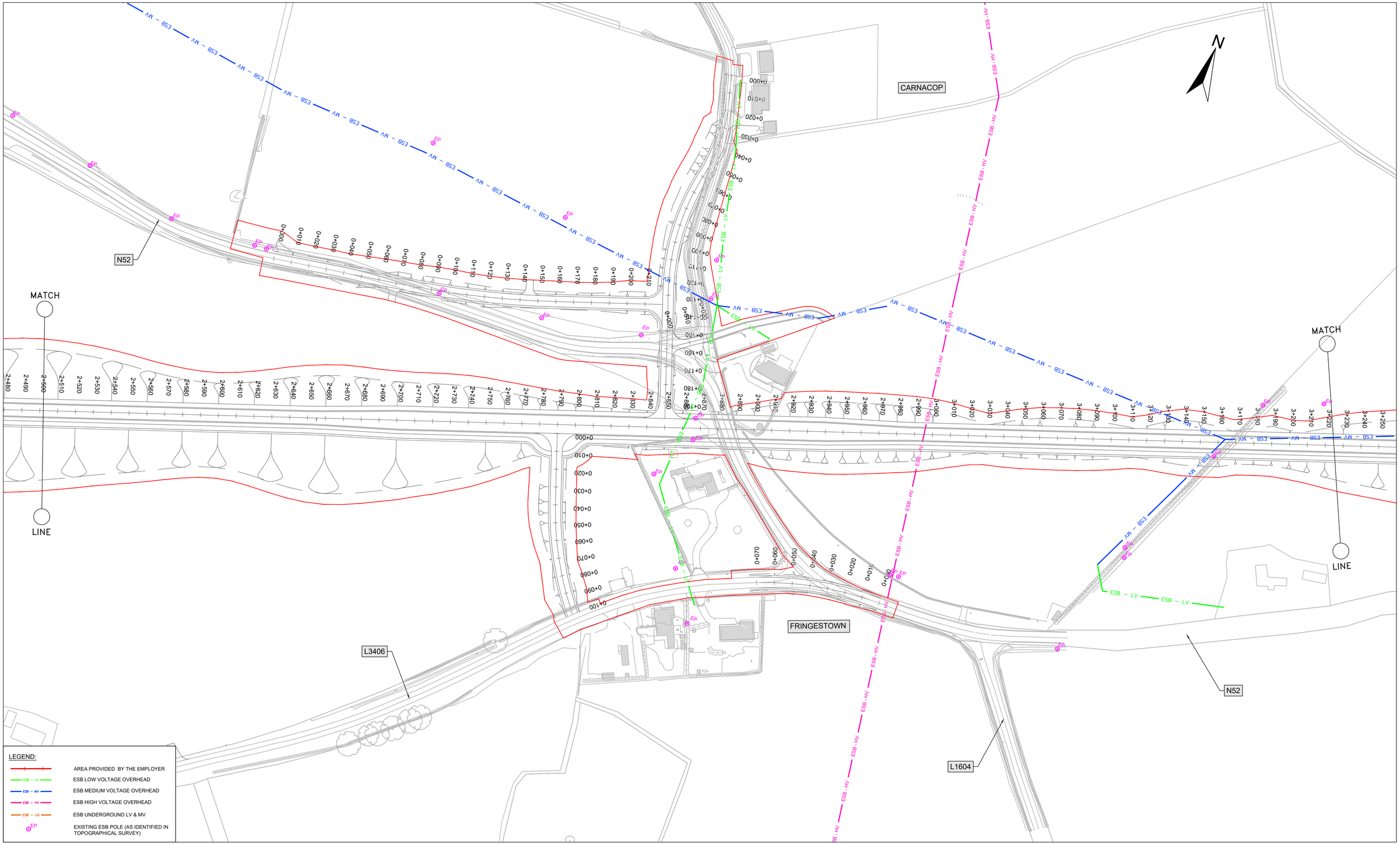
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Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES ESB SERVICES SHEET 04 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500104
Scale (A1)	1:1000
Date:	18/03/2026
Job No:	25.167
Rev:	P01

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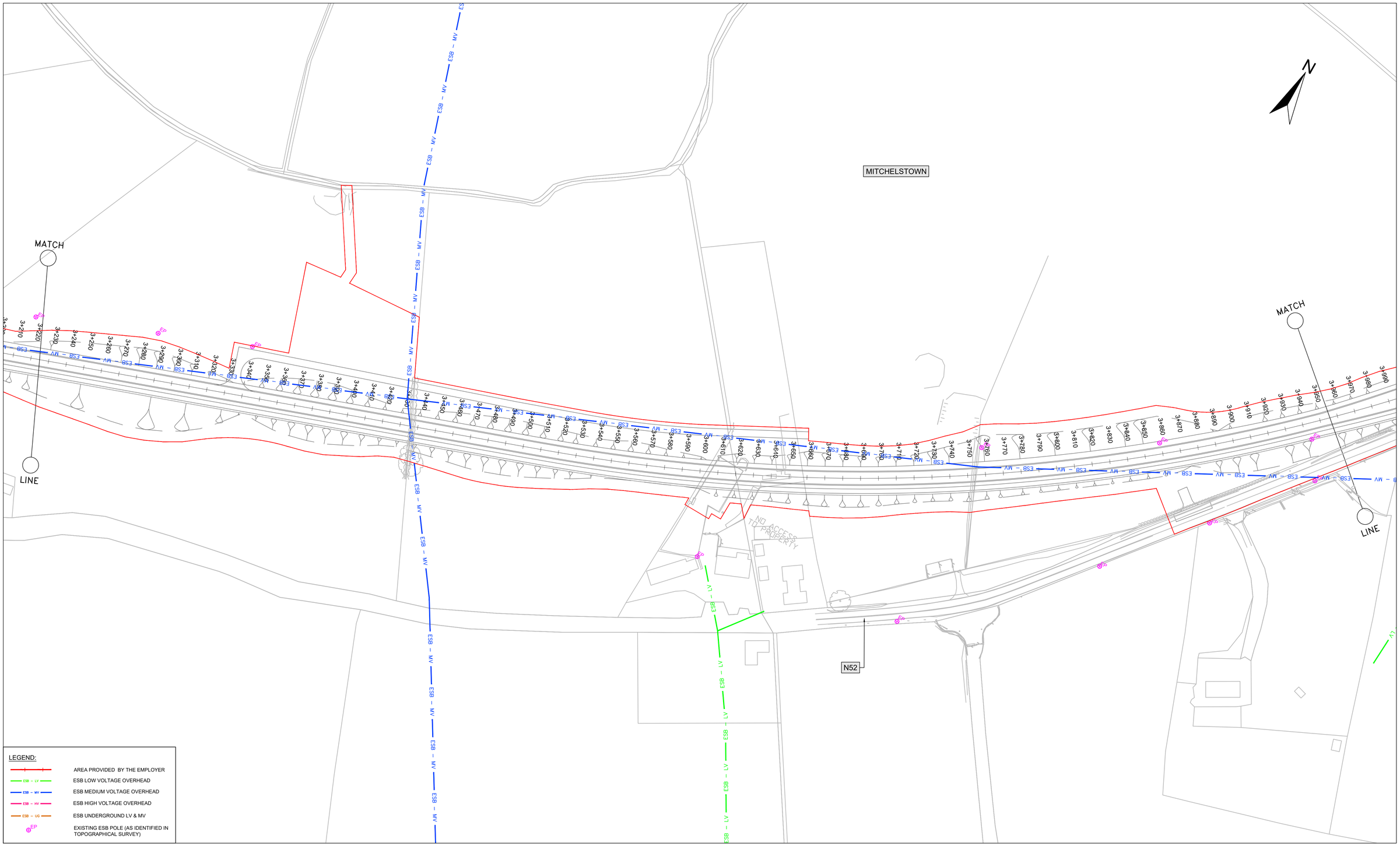
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Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES ESB SERVICES SHEET 05 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500105
Scale (A1)	1:1000
Date:	18/03/2026
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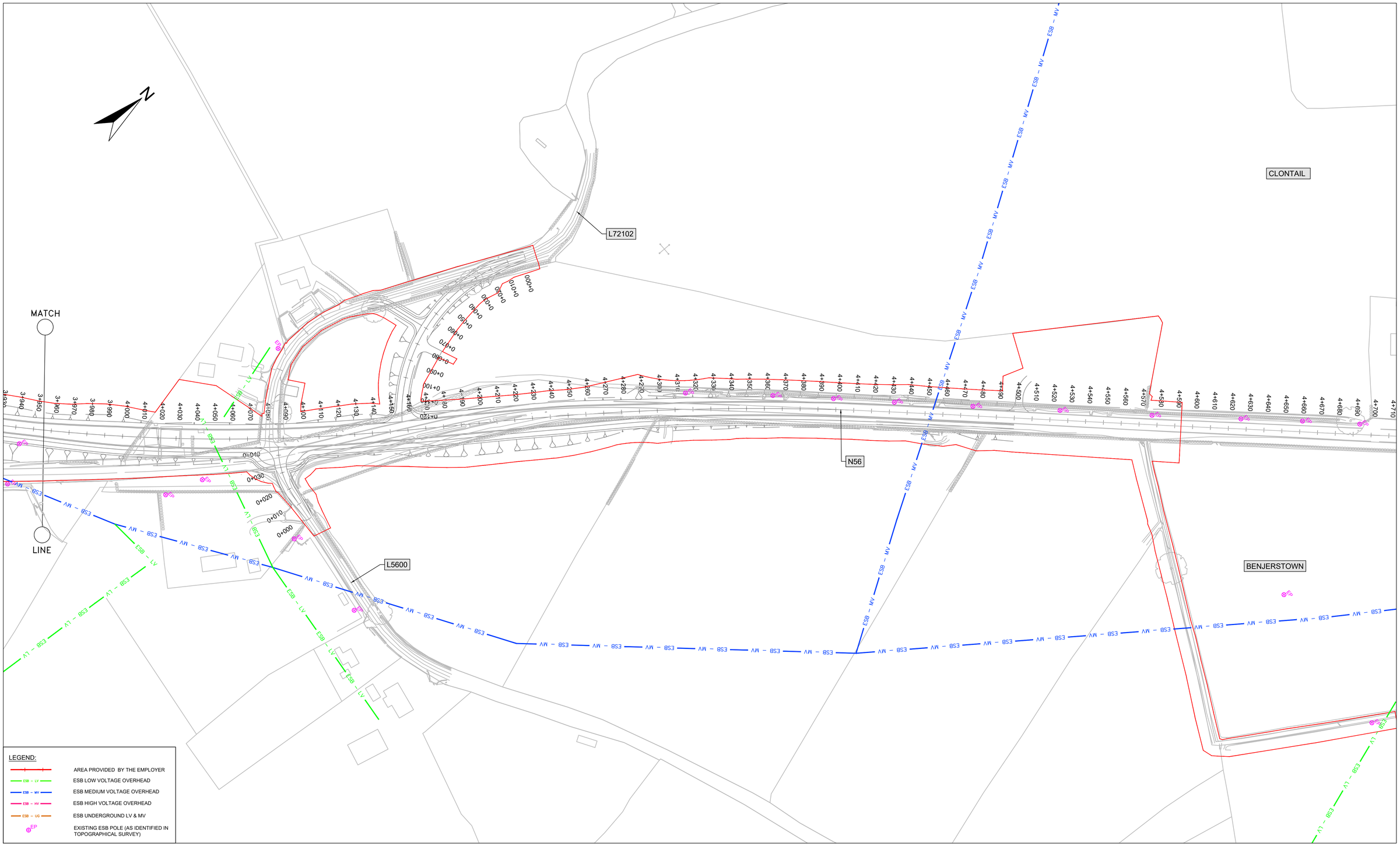
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Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES ESB SERVICES SHEET 06 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500106
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Date:	18/03/2026
Job No:	25.167
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Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
ESB SERVICES
SHEET 07 OF 08

Drawing Number: Project | Originator | Volume | Location | Type | Role | Number
N52GC - RODA - HUT - SW_AE - DR - CU - 500107

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CLONTAIL

BENJERSTOWN

LEGEND:

- AREA PROVIDED BY THE EMPLOYER
- ESB LOW VOLTAGE OVERHEAD
- ESB MEDIUM VOLTAGE OVERHEAD
- ESB HIGH VOLTAGE OVERHEAD
- ESB UNDERGROUND LV & MV
- EXISTING ESB POLE (AS IDENTIFIED IN TOPOGRAPHICAL SURVEY)

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PC	SR	IF	DOR	S0 - Work In Progress

Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES ESB SERVICES SHEET 08 OF 08

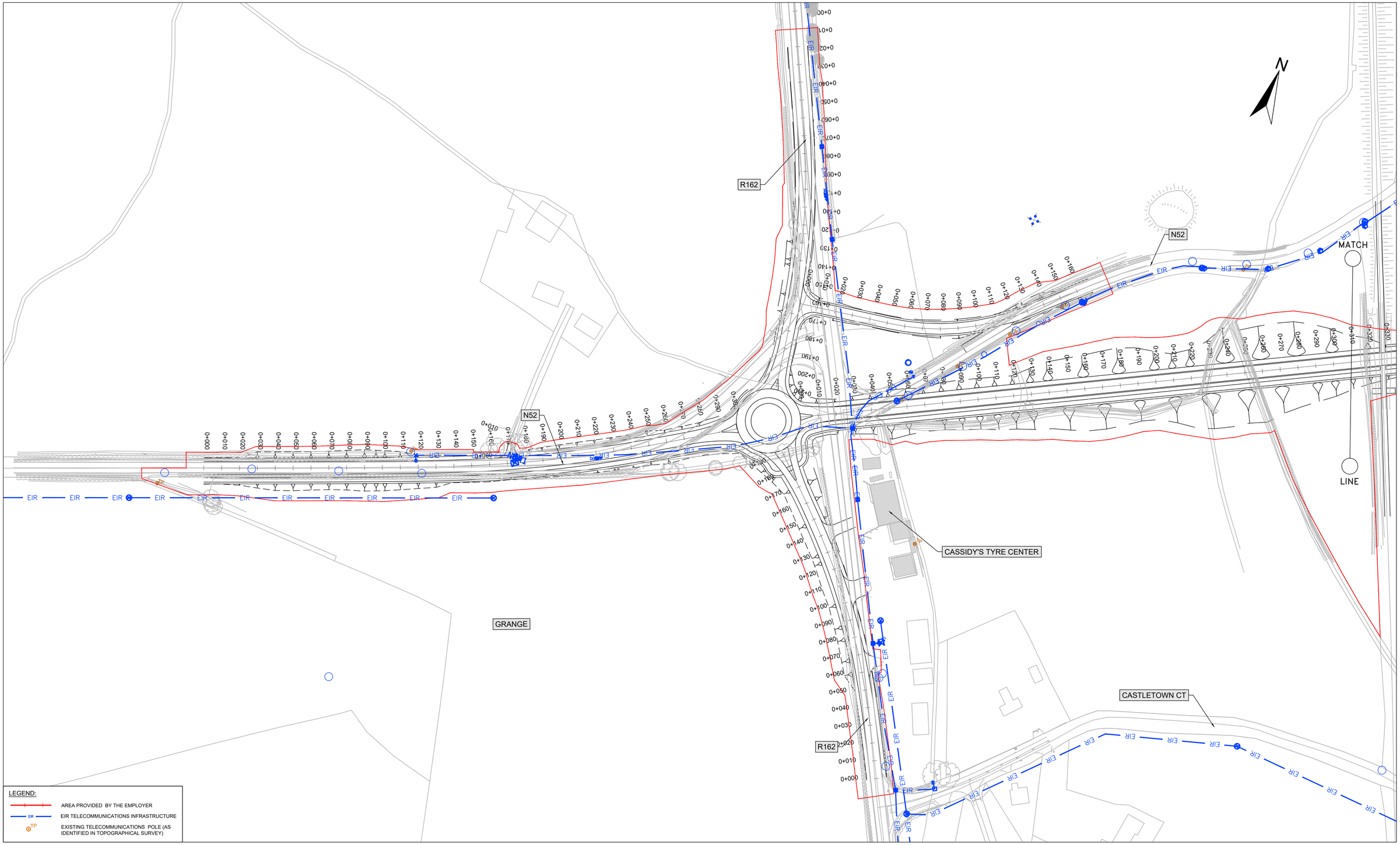
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LEGEND:

- AREA PROVIDED BY THE EMPLOYER
- EIR TELECOMMUNICATIONS INFRASTRUCTURE
- TP EXISTING TELECOMMUNICATIONS POLE (AS IDENTIFIED IN TOPOGRAPHICAL SURVEY)

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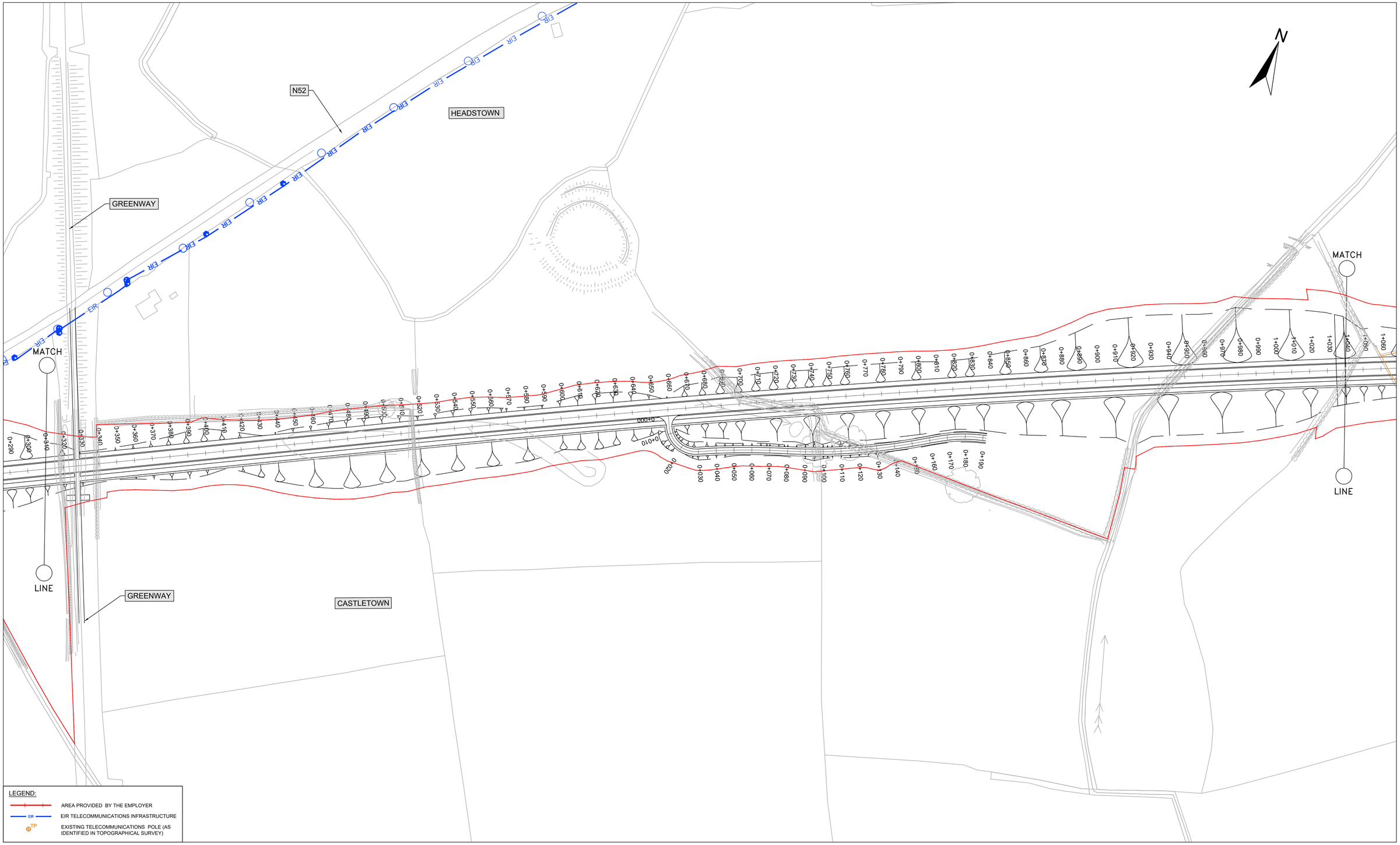
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PC	SR	IF	DOR	S0 - Work In Progress

Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES EIR SERVICES SHEET 01 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500201
Scale (A1)	1:1000
Date:	18/03/2026
Job No:	25.167
Rev:	P01

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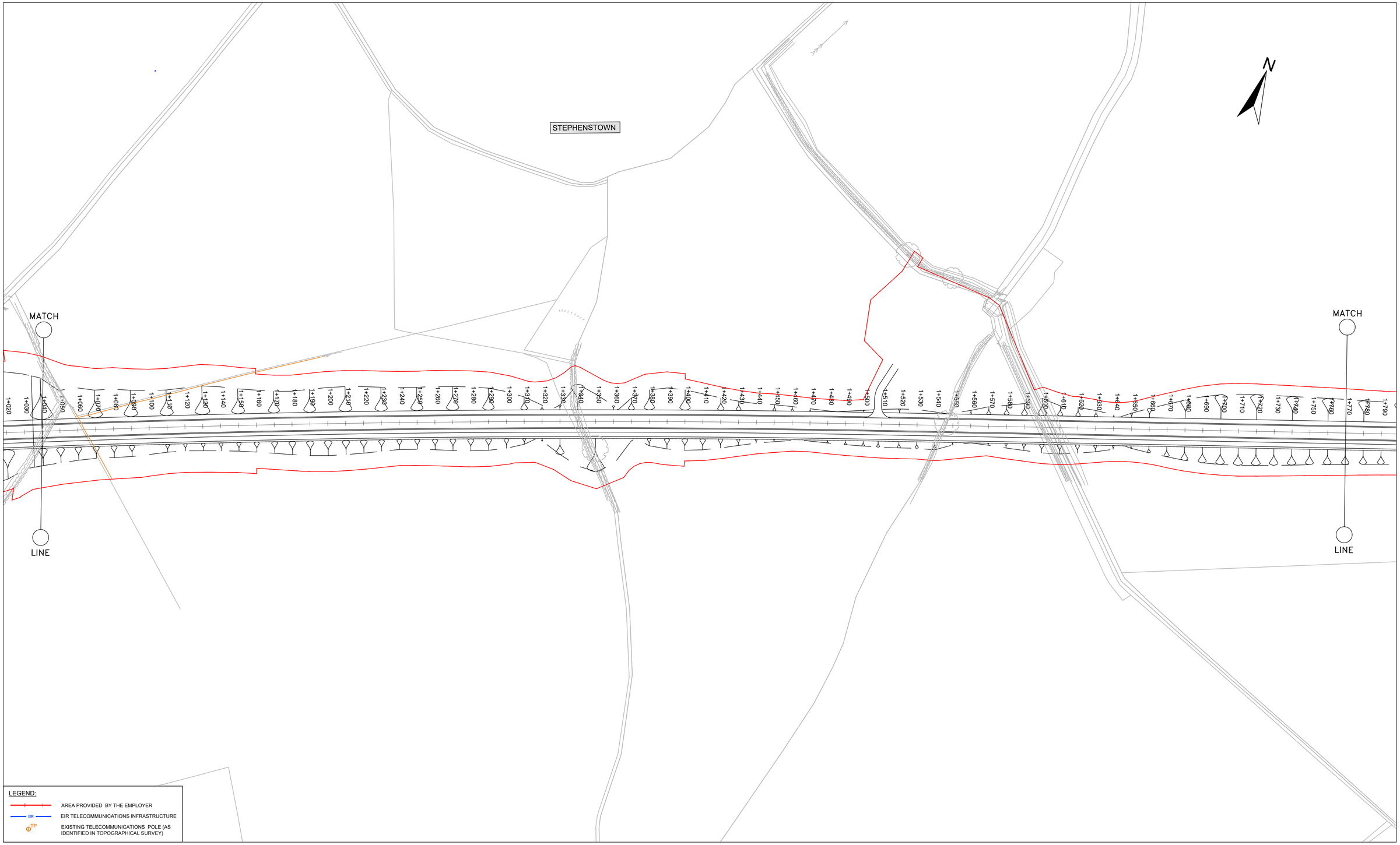
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Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES EIR SERVICES SHEET 02 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500202
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Date:	18/03/2026
Job No:	25.167
Rev:	P01

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LEGEND:

- AREA PROVIDED BY THE EMPLOYER
- EIR — EIR TELECOMMUNICATIONS INFRASTRUCTURE
- TP — EXISTING TELECOMMUNICATIONS POLE (AS IDENTIFIED IN TOPOGRAPHICAL SURVEY)

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Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES EIR SERVICES SHEET 03 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500203
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Date:	18/03/2026
Job No:	25.167
Rev:	P01

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PC	SR	IF	DOR	S0 - Work In Progress

Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
EIR SERVICES
SHEET 04 OF 08

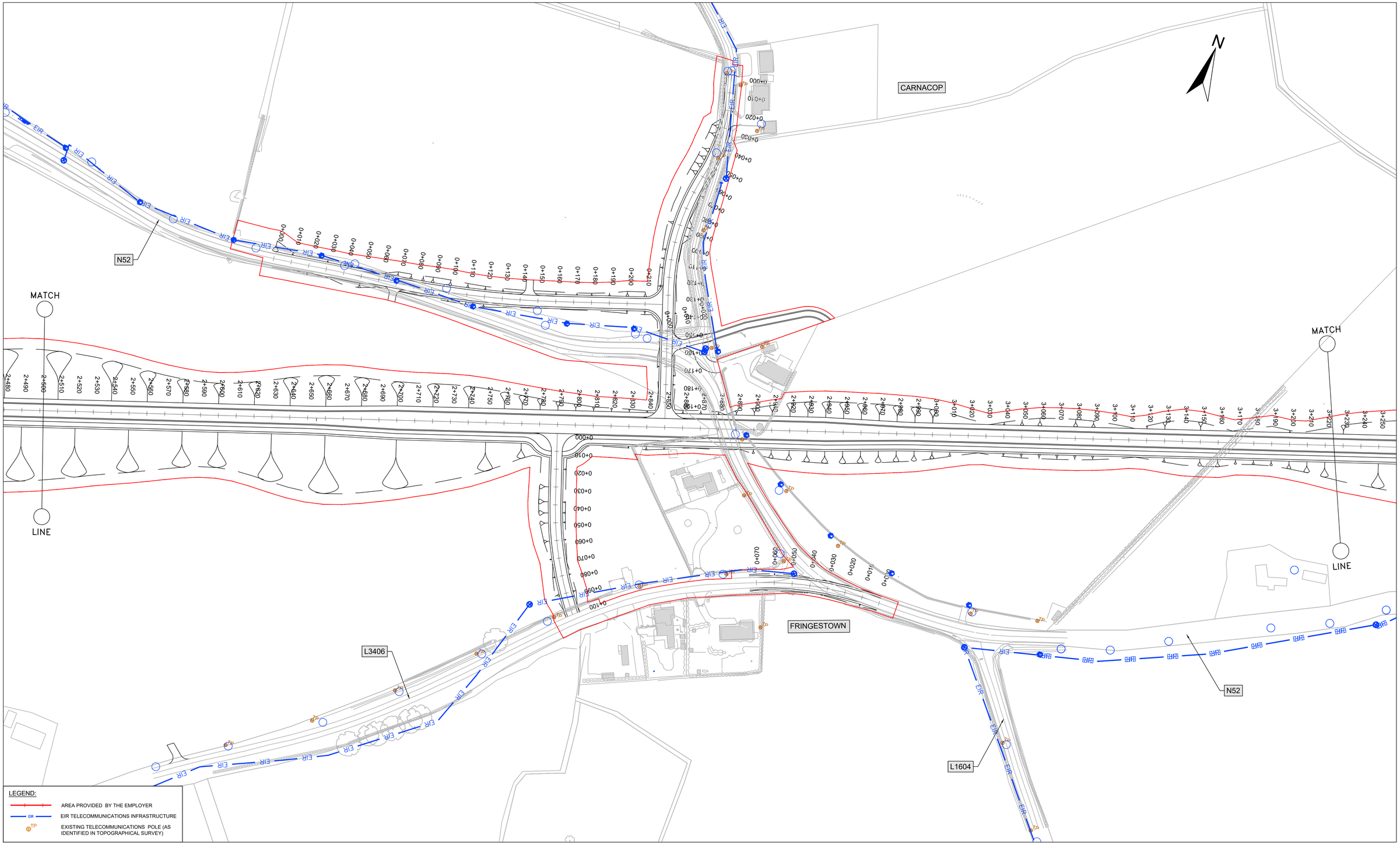
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Drawn	Designed	Checked	Approved	Suitability Code - Description
PC	SR	IF	DOR	S0 - Work In Progress

Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
EIR SERVICES
SHEET 05 OF 08

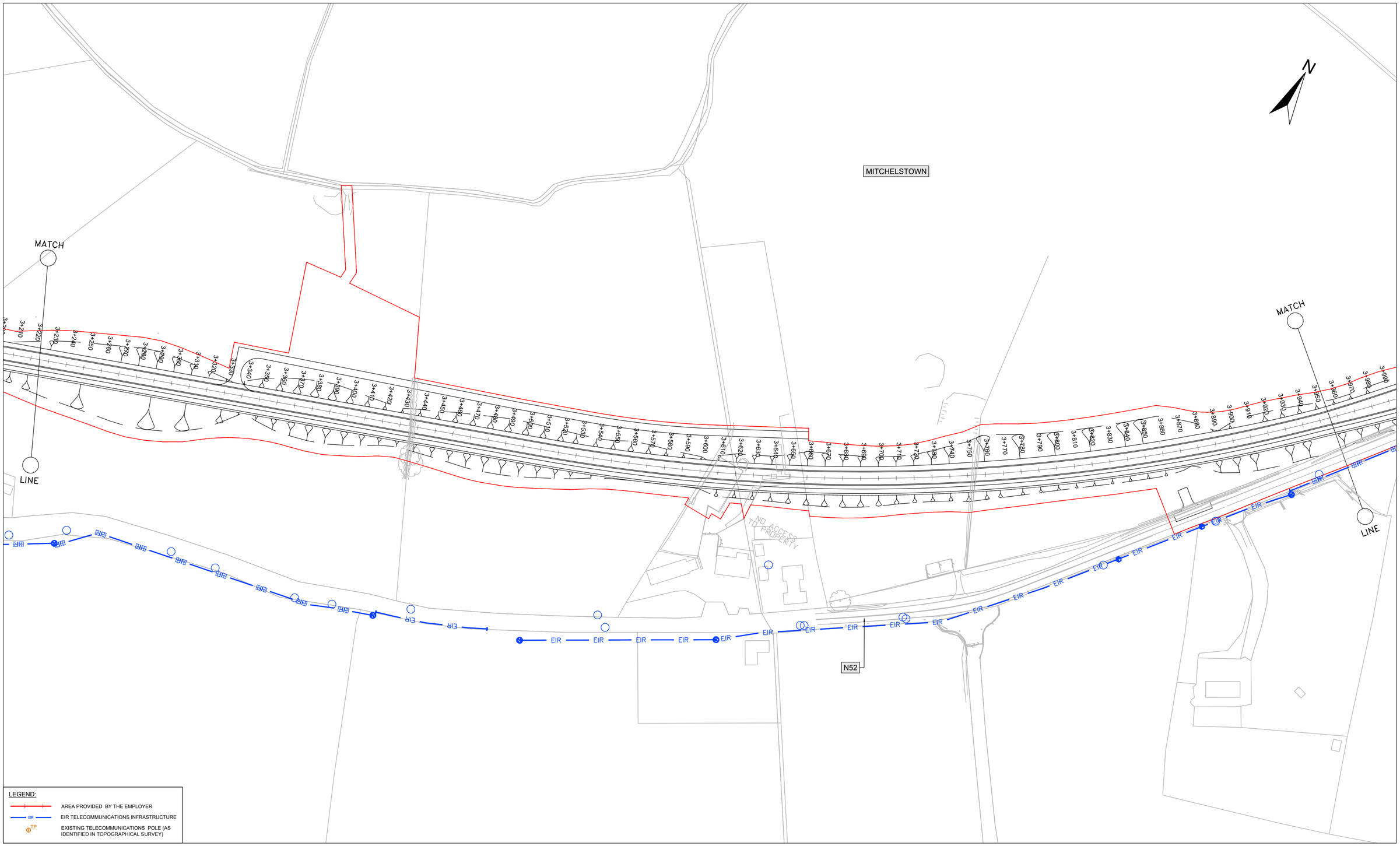
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Scale (A1)	Date:	Job No:	Rev:
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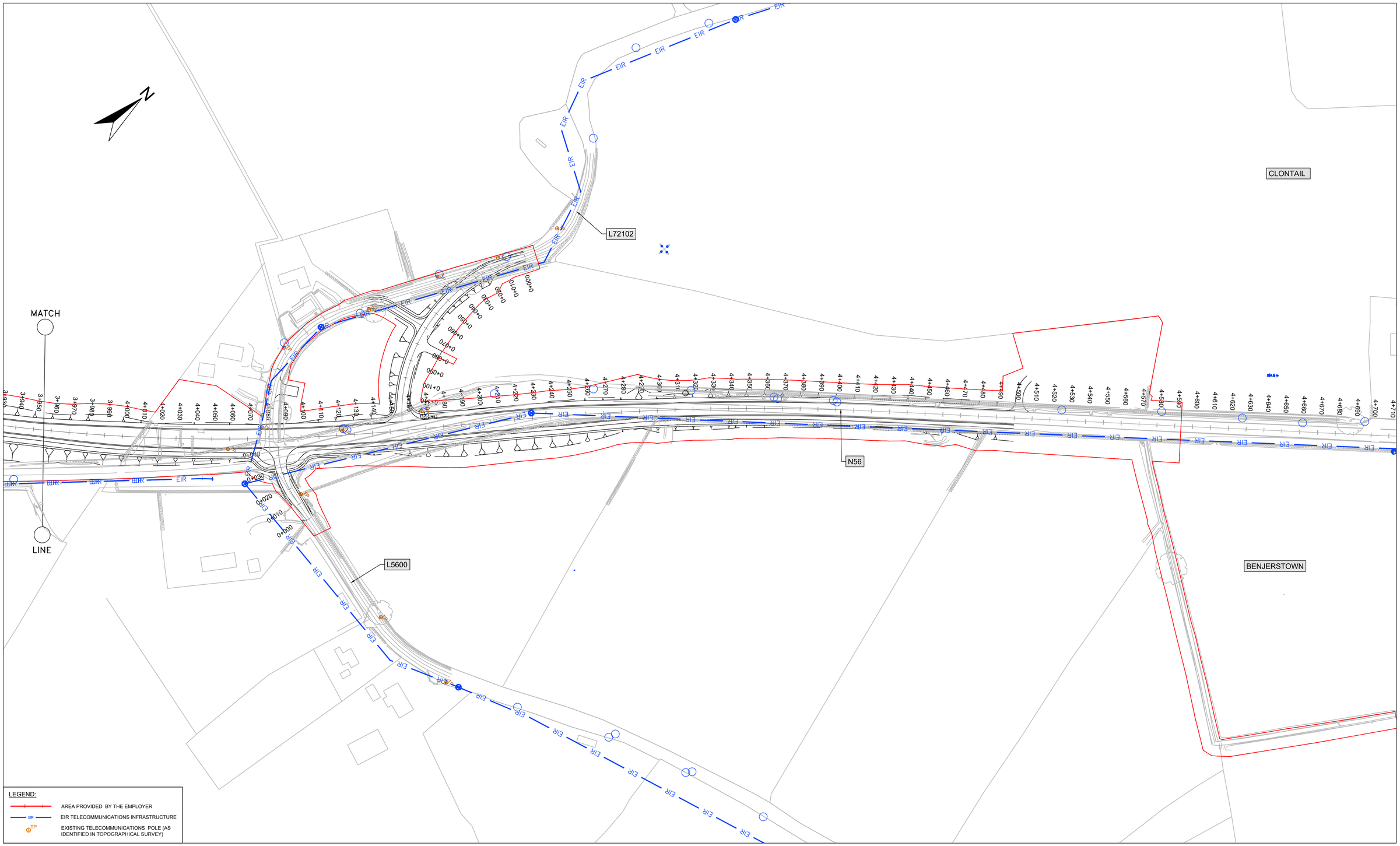
Drawn	Designed	Checked	Approved	Suitability Code - Description
PC	SR	IF	DOR	S0 - Work In Progress

Project Stage	DETAILED DESIGN
Project Title	N52 GRANGE TO CONTRAIL ROAD SCHEME
Drawing Title	UTILITIES EIR SERVICES SHEET 06 OF 08
Drawing Number	Project | Originator | Volume | Location | Type | Role | Number N52GC - RODA - HUT - SW_AE - DR - CU - 500206
Scale (A1)	1:1000
Date:	18/03/2026
Job No:	25.167
Rev:	P01

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Drawn	Designed	Checked	Approved	Suitability Code - Description
PC	SR	IF	DOR	S0 - Work In Progress

Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
EIR SERVICES
SHEET 07 OF 08

Drawing Number: Project | Originator | Volume | Location | Type | Role | Number
N52GC - RODA - HUT - SW_AE - DR - CU - 500207

Scale (A1): 1:1000 | Date: 18/03/2026 | Job No: 25.167 | Rev: P01

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LEGEND:

(red line)	AREA PROVIDED BY THE EMPLOYER
EIR (blue line)	EIR TELECOMMUNICATIONS INFRASTRUCTURE
⊕TP	EXISTING TELECOMMUNICATIONS POLE (AS IDENTIFIED IN TOPOGRAPHICAL SURVEY)

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Drawn	Designed	Checked	Approved	Suitability Code - Description
PC	SR	IF	DOR	S0 - Work In Progress

Project Stage: DETAILED DESIGN

Project Title: N52 GRANGE TO CONTRAIL ROAD SCHEME

Drawing Title: UTILITIES
EIR SERVICES
SHEET 08 OF 08

Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
	N52GC	RODA	HUT	SW_AE	DR	CU	500208

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