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Shesknan Bridge Works

Preliminary Safety and Health Plan

25319-DID-03-XX-HS-C-8001

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1 Introduction

1.1. Purpose of this Document

This Preliminary Safety and Health Plan has been prepared by the Project Supervisor Design Process (PSDP) in compliance with Regulation 12 of the Safety, Health and Welfare at Work (Construction Regulations) 2013, hereby known as 'The Regulations'.

The Preliminary Safety and Health Plan will be made available to the designated Project Supervisor Construction Stage (PSCS) in compliance with Regulation 9, who will develop it in line with Regulation 16 to include additional information unavailable prior to PSCS appointment, at which point under this Regulation it will become known as the Safety and Health Plan.

The PSDP will hold a copy of this plan to be made available for inspection by an inspector for the duration of the works.

1.2. Project Supervisor for the Design Process

Design ID Consulting Ltd (DID) have been appointed by Leitrim County Council to act as The PSDP for this project. Contact details can be found in Section 2.3.

The PSDP has been appointed to oversee the coordination of designers through the project. In this role Design ID have prepared this written Preliminary Safety and Health Plan. The PSDP may issue directions to designers, contractors or other relevant parties involved in the project.

Design ID have also been appointed as Employer's Representative from Tender to Construction.

1.3. Related Legislation

This Preliminary Safety and Health Plan should be read in conjunction with the following Legislation and all subsequent Regulations and Guidelines:

- Safety, Health and Welfare at Work Act 2005
- S.I. No. 504 Safety, Health and Welfare at Work (Construction) Regulations, 2006
- S.I. No. 291 Safety, Health and Welfare at Work (Construction) Regulations, 2013
- S.I. No. 299 Safety, Health and Welfare at Work (General Application) Regulations 2007
- Guidelines and Codes of Practice as published from time to time by the HAS

1.4. Drawings, Specification and Other Documents

- Works Information Requirements
- 25319-DID-03-XX-DR-C-1001 – General Arrangement
- 25319-DID-03-XX-DR-C-1002 – Sections and Details
- 25319-DID-03-XX-RC-C-3001 – Reinforcement Details
- 25319-DID-03-XX-SH-C-3001 – Reinforcement Schedule
- 25319-DID-03-XX-SP-C-7001 – Specification

2 Details of the Project

2.1. Description of the Project

The title of the project is Shesknan Rehabilitation Works, hereby referred to as 'The Project'.

Design ID Consulting Ltd were commissioned by Leitrim County Council, to provide consultancy services for the Preliminary, Design, Tender, Construction and Handover Stages of the works.

The project involves the replacement/rehabilitation of a single-span road bridge in poor structural condition and has partially collapsed. Works will focus on the replacement of bridge deck and parapet walls, abutment and wingwall re-pointing, vegetation clearance, and associated ancillary works.

- **Shesknan Bridge:** a single-span masonry arch bridge of approximately 6m span, supporting a local road crossing over a natural watercourse. The bridge consists of a masonry arch barrel, stone sidewalls and parapets, with a relatively shallow depth of fill material supporting the road surface above.

The recommended solution for the bridge is full replacement. This addresses advanced deterioration including reinforcement corrosion, section loss and spalling, which render repair-only strategies uneconomical and short-lived.

Additional works are anticipated to include the following:

- Site mobilisation and establishment.
- Temporary works and access provision.
- Demolition of defective components.
- Parapet, abutment and wingwall works.
- Vegetation clearance and habitat measures.
- Road reinstatement, surfacing and safety barrier installation.
- Final inspection and handover.

2.2. Location of Works

The bridge site is located in County Leitrim, in a rural area accessed via regional and local roads. The site spans a minor stream and is approached via narrow roads.

The proposed bridge site is located on the L-6100-0 road, near Shesknan, Leitrim County, Ireland (54.393978, -8.328004), approximately 8km south-west of Kinlough village.

The site location of the bridge is shown in Figure 1 below.



Figure 1 – Bridge Location Map.

2.3. Timescales

Timescale for Construction Work		
Key Event	Commencement Date	Duration (Weeks)
Minimum mobilisation period for preparation and planning	TBC	TBC
Anticipated start date for the Construction Phase	TBC	TBC
Anticipated Completion Date	TBC	TBC

The PSCS shall devise a comprehensive works programme in accordance with the requirements of the Works Requirement Specification.

The PSCS must consider the timeframe stated and inform the PSDP if they feel this timeframe is not adequate for the safe completion of the works for full compliance under The Regulations. If the PSCS does not consider the proposed contract period adequate, they should set out the contract period that they feel is necessary to safely complete the works, together with their basis for calculating such a contract period, in the Programme aspect of the Instruction to Tenderers and Technical Merit Submission. Under such circumstances, their tender should be based on this longer contract period.

2.4. Phasing of the Works

The PSCS is responsible for producing a programme that illustrates adequate phasing to complete the works in accordance with the Project Design, Specification, Screening Report for Appropriate Assessment and relevant Legislation.

2.5. Notification of Project

The PSCS shall, before the work begins, give written notice promptly to the Authority in a form and containing the particulars listed in Schedule 3, sent either:

- (a) by registered post, or
- (b) as may be directed from time to time by the Authority.

It shall be the duty of the PSCS to clearly display, and periodically update the particulars required to be in any notice under Regulation 22 of the Regulations.

2.6. Project Team

Project Team Contact Details		
Duty Holder	Name	Contact Details
Employer	Leitrim County Council Fergal Fagan Kevin Geoghegan	Park Lane Office Carrick-On-Shannon County Leitrim +353 71 962 0005 ffagan@leitrimcoco.ie

Project Supervisor Design Process (PSDP)	Design ID Ronan Carlin	23 Lisburn Road Hillsborough County Down Northern Ireland +442892681055 ronan.carlin@designid.co.uk
Employer's Representative	Design ID Mark Rooney	23 Lisburn Road Hillsborough County Down Northern Ireland +442892681055 mark.rooney@designid.co.uk
Project Supervisor Construction Stage (PSCS)	TBC	TBC

2.7. Surrounding Land Use

The site is in a rural settings, surround primarily by agricultural land, low-density housing and minor local roads.

The project will involve temporary access over private land for inspections and construction works. The PSCS will be responsible for initiating landowner communication and obtaining consent.

2.8. Other Contract or Building Works Which May Affect the Project

The PSCS will be the sole occupier of the site for the duration of the contract. The PSCS should ensure the safety of members of the public at all times in relation to interfaces of their works. This includes, but is not limited to, if the PSCS is working in an area, leaving an incomplete area overnight, or for an extended period without supervision then they must ensure that public access is prevented and that the works area, excavations, plant, materials are left in a safe and secure manner.

At the time of writing, no adjacent construction projects or public works are known to impact this scheme. The PSCS will be expected to:

- Confirm whether any nearby or overlapping works (e.g. utility, drainage or resurfacing) are planned or ongoing;
- Liaise with any affected stakeholders to ensure coordination;
- Maintain public safety and manage interface risks throughout construction.

The PSCS for this project will be expected to cooperate and coordinate with any adjacent projects for the safety of all works.

2.9. Contact Details for Individual Service Providers

Service Provider Contact Details	
Service Provider	Contact Details
ESB Networks	St. Margaret's Road, Finglas, Dublin 11
Gas Networks Ireland	Networks Services Centre St. Margaret's Road Finglas Dublin 11 D11 Y895TBC
Uisce Éireann	24-26 Talbot Street Dublin 1 D01 NP86TBC
Aurora Telecom	St Margaret's Rd, Finglas, Dublin 11 D11 RD37
Eir Networks	Click Before You Dig: https://cbyd.emaps.eircom.ie/Eircom-CBYD/

3 Client Consideration and Management Regulations

3.1. Arrangements for Planning and Managing Construction Works

The works are instructed by the Client, are detailed in Section 1.1.

An outline of the arrangements for planning and managing health and safety during the construction phase of the project is listed below:

- i. The PSCS is responsible for the health, safety and wellbeing of all their employees at work, the health, safety and wellbeing within the construction site and of those not in their employment, who are affected by the works.
- ii. The PSCS shall be responsible for the management and implementation of health and safety on site.
- iii. The Client shall have the right to suspend the construction work if they believe that a person's safety is at risk.
- iv. The Client requires that all work is undertaken in accordance with all statutory requirements with respect to health and safety. In addition, all relevant approved codes of practice and guidance notes shall be adhered to.
- v. All personnel on site must have received adequate training to undertake their work in a safe and competent manner. Information on the training of personnel, refresher training and statutory training certification should be held by the PSCS and must be available for inspection at the site.
- vi. All persons on site should be given a site-specific induction to familiarise themselves with emergency procedures, management requirements and specific site details.
- vii. Any training needs identified as being required during the course of the project shall be undertaken. These may be in the form of toolbox talks or other suitable methods.
- viii. Health and safety shall be included on the agenda of all site meetings and significant items recorded and distributed to all relevant parties.
- ix. A system of monitoring the construction works to ensure the effective management of safety throughout the project duration shall be implemented by the PSCS. Such monitoring shall include workplace inspections for general site safety, statutory inspections including but not limited to scaffold, plant, equipment, and the monitoring of subcontractors.
- x. The PSCS is responsible for the production of all required method statements and risk assessments with respect to their undertakings. In addition, the PSCS shall review the method

statements and risk assessments of all subcontractors on site and ensure that their content is suitable and sufficient before permitting any relevant activities to commence.

- xi. Details of all accidents on site and the findings of accident investigations shall be forwarded promptly to the Employer's Representative.

3.2. Site Specific Safety Objectives

The works shall be carried out in a safe manner and with regard to the principles of prevention.

The PSCS should comply with all relevant Legislation, guidance and best practice. They should ensure the highest possible standards to provide a workplace that is free from risks to the health, safety and welfare of persons at work or affected by their work, so far as is reasonably practicable.

The following safety objectives shall be adopted for this project:

- To have no enforcement action taken over the duration of the project.
- To eliminate all accidents and potential sources of ill health that could occur within the project.
- To have no occupational ill health arising from the project.
- To ensure that no environmental damage occurs.
- To establish safe working practices for all employees and subcontractors working on this contract.
- To develop a high degree of awareness in health, safety and environmental issues.
- To provide information and training on health and safety and to encourage employees and subcontractors to participate in meeting the requirements of the legislation to enable the contract to be completed safely.
- To ensure the least disruption to local businesses and members of the public as a result of the project.
- To exclude unauthorised persons from the work site.
- To provide safe access to and egress from the site.
- To ensure no injury or harm to any members of the public.
- To provide operating conditions so that the lowest reasonably practicable noise levels are maintained.
- To ensure that dust and odour nuisance does not occur, so far, as is reasonably practicable.
- To provide a high standard of welfare facilities for persons at work in accordance with current Legislation.

3.3. Site Rules

The PSCS shall establish site safety rules in accordance with best practice and current Construction regulations. The site safety rules should cover, but not be limited to, topics such as:

- Personal protective equipment
- Use of radios and mobile phones
- Smoking
- Restricted areas
- Hot works
- Traffic management systems
- Pedestrian routes
- Site tidiness
- Fire prevention
- Permit-to-work systems
- Emergency arrangements
- Safe use of tools and plant
- Infectious disease precautions
- Leptospirosis

The rules should be clear and easily understandable and should be brought to the attention of everyone on site who should be expected to follow them. Any special requirements such as the need to have translations of the rules available for non-English speaking workers on site should be considered.

Every site worker should be given a suitable site induction. The induction should be site specific and highlight any particular risks.

3.4. Restrictions on Working Hours

The working hours within the Site shall be as stated in Appendix 1/9 of the Works Requirement Specification.

3.5. Security of the Site and Hoarding Design

The PSCS is entirely responsible for the security of the site and should ensure unauthorised persons cannot enter into work areas while construction activities are taking place.

The PSCS is to ensure that there is an adequate temporary fencing to prevent access to the site of all un-authorized persons.

3.6. Welfare Provision

The PSCS is required to provide their own facilities that comply with the requirements of Part 14 of the Regulations. These are to be established before any construction activity commences on site and maintained in a hygienic manner for the duration of the project.

3.7. Site Transport Arrangements or Vehicle Movement Restrictions

It is the responsibility of the PSCS to determine suitability of site transport and vehicle movement restrictions in addition to access and egress.

3.8. Permit to Work Systems

The PSCS shall, implement a permit to work system for higher risk works activities.

3.9. Authorisation Requirements

The PSCS shall work within the 'Contractor's Site Area' as defined by Leitrim County Council.

3.10. Confined Spaces

All works involving work on or entry into confined spaces shall be carried out in accordance with the requirements of the Regulations and shall be subject to a safe system of work and the issue of a confined spaces permit to work, as appropriate.

4 Site Specific Safety Information

4.1. Existing Services

The PSDP liaised with the major utility providers and asked them to provide records of their existing networks in the vicinity of the proposed works. Responses have been received and included in Appendix A. It is the PSCS's responsibility to carry out their own existing services search, and to take all reasonable precautions when working on site with regard to undiscovered services.

In the event that an existing service is located, the PSCS shall inform the PSDP and liaise with the respective utility provider.

The PSCS shall liaise with all relevant bodies to determine the location of all services and comply with:

- 1 Code of Practice for Avoiding Danger from Underground Services (HSA 2010)
- 2 Code of Practice for Avoiding Danger from Overhead Electricity Lines (HSA/ESB 2008)

4.2. Emergency Procedures and Means of Escape

It is the responsibility of the PSCS to set in place emergency procedures for any reasonably predictable event. Emergency procedures should be well communicated and made available to all personnel involved with the Project. The procedures should make particular reference to the rescue of personnel from water where appropriate. Potential emergency contact details are included below for information only.

The PSCS shall ensure that emergency procedures and means of escape are maintained throughout the Construction Phase and any additional measures as a result of the works or erection of scaffolding/hoarding, etc. on site are put in place and maintained as required.

Local Emergency Services (Nearest) It is the PSCS's responsibility to confirm and update the below, it has been included for information only.		
Stakeholder	Name	Contact Details
Accident and Emergency Department	Sligo University Hospital	Sligo, Co. Sligo, +353 71917 1111
Police Station	Carrick-on-Shannon Garda Station	Garda Station, Shannon Lodge, Townparks, Carrick-On-Shannon, Co. Leitrim +353 71 965 0510
Fire Station	Drumshanbo Fire Station	Tostal Terrace, Drumshanbo In event of emergency dial 999

4.3. Existing Structures

Refer to Leitrim County Council inspection photos of Shesknan Bridge.

4.4. Asbestos Information

There is no known asbestos on the Site.

The PSCS must ascertain if any additional information is required to ensure the safety of all persons and the works.

4.5. Ground Conditions

According to Geological Survey Ireland data, Shesknan bridge is constructed over Mullaghmore Sandstone Formation.

No site investigation or soil testing has yet been undertaken.

The PSCS shall confirm bearing capacity, slope stability and safe working platforms for plant near embankments during Construction Stage planning. Ground conditions near the stream bed and approaches must be assumed to have low bearing strength until proven otherwise.

4.6. Contaminated Land

No contaminated land assessment has been completed.

4.7. Liaison with Stakeholders

Requirements for Liaison with Stakeholders	
Local Authority	Liaise in relation to road closures, road openings, utilities, access point from the public road to the site and closing of any footpath areas adjacent to the site.
Emergency Services	Liaise in relation to emergency procedures, hazards on site, access to the site, any other relevant procedures or information.
National Monuments Service	Liaise in relation to existing known archaeology and proposed works.
Utility Providers	Liaise in relation to service and infrastructure location requests, disconnections, emergency strikes.
Inland Fisheries Ireland / National Parks and Wildlife Service	Liaise in relation to works that may impact the waterway or habitats
Landowners	Adjacent landowners have been made aware of the project.

4.8. List of Stakeholders

Stakeholders Contact Details		
Stakeholder	Name	Address Contact Details (telephone, email)
All stakeholder contact details to be confirmed with Leitrim County Council by PSCS prior to construction works. This is to include local landowners, members of the public and those who use the watercourse for recreational purposes (anglers).		

4.9. Landowner Consent

The bridge lies adjacent to private agricultural land.

Leitrim County Council shall communicate with all landowners in advance of the proposed works and inform them of the details of the contract, requesting their co-operation in relation to site access. Leitrim County Council will be responsible for dealing with landowner consent and will provide the PSCS with appropriate details regarding landowners where required. The PSCS shall liaise with any landowners in advance of the works to arrange site access.

Where landowner consent is not granted, the PSCS shall not enter on to the property and shall revert to the PSDP to seek instruction on how to proceed.

It is not anticipated that additional land will be required permanently or temporarily in the construction phase to deliver the final solution. The PSCS shall review the design documents and confirm this as part of their Tender.

It is the responsibility for the PSCS to carry out liaisons with Waterways Ireland in advance of the works where relevant.

4.10. PSDP / PSCS Interface

Health and safety will form a key part of the agenda at the site start-up meeting, where the PSDP will fully brief the PSCS on any safety and health concerns, pass on all relevant health and safety documentation and to inform them of their health and safety responsibilities during the construction period. At this meeting the PSCS will be required to issue a comprehensive list of all temporary and permanent work designs envisaged for the project and a schedule of anticipated delivery dates.

The PSDP may, depending on the issued information from the PSCS design team, revise and re-issue the preliminary safety and health plan for the project.

4.11. Design of Temporary Works

The PSCS should design, supply and install all temporary works in accordance with Appendix 1/11 and 1/71 of the Works Requirement Specification.

All temporary works necessary to facilitate the permanent works must be designed and assessed by competent personnel and a Temporary Works Design Certificate completed. The PSCS will be required to communicate to the PSDP all temporary works before they are implemented. This should be done in writing. Temporary works should not be installed until the temporary works design certificate has been accepted by the PSDP.

The PSCS / Temporary Works Designer must submit suitable information to support temporary works design certificates to the PSDP. Examples of information required include:

- Site investigation information
- Temporary works system envisaged
- Any potential impact on permanent works design
- Appropriate banners and warning signs shall be provided and displayed in accordance with the Construction Regulations.

Temporary works include but are not limited to:

- Fencing off / hoarding of the site for the project including appropriate supports to the fencing.
- Traffic management
- Temporary stone ramps to provide access over existing stairs
- Temporary Retention structures adjacent to and/ or in waterways
- Working platforms for lifting operations
- Concrete formwork
- Excavation support/protection
- Scaffolding

The PSCS is to provide PSDP with any standard designs to be used for temporary works for review. If temporary works are installed in accordance with a pre-approved existing design the work can proceed without PSDP's sign off. However, it is required that the PSCS provides details of all temporary works (including pre-designed) completed at the next PSDP/PSCS interface, along with confirmation that it was done in accordance with the preapproved design.

4.12. Alterations to the Permanent Works Design

Any changes to the permanent works design required at the construction stage must be subject to the Design Change Process and co-ordinated by the PSDP. To this end any amendments to the original design must be brought to the PSDP's attention by the PSCS and not carried out on site until the PSDP has given approval for the amendment.

The responsibility for bringing additional design on the project (e.g. re-design and temporary works design) during the construction stage to the attention of the PSDP rests with PSCS. The PSDP will then organise co-operation between the relevant parties regarding the health and safety aspects of the design work.

In addition to design work (as above) The PSCS shall bring all unforeseen events that occur during project execution and that require changes to the design or which might affect the Particular Risks, contract period, or have other health and safety implications, to the attention of the PSDP.

4.13. Environmental Risks

The PSCS should carry out surveys and seek advice to ensure that they are complying with all relevant legislation and guidance, including but not limited to:

- The Water Framework Directive
- Planning and Development Acts, 2000–2017
- The Waste Management Acts, 1996–2011
- The Environmental Protection Agency Acts, 1992–2011
- Wildlife Act, 1976, as amended by the Wildlife (Amendment) Act, 2000
- European Communities (Natural Habitats) Regulations (S.I. 94 of 1997), as amended.

For further information please refer to Volume A – Part 1 – Specification and Screening Report for Appropriate Assessment.

5 Significant Design and Construction Hazards

5.1. Particular Risks to Health, Safety and Welfare

Schedule 1: Non-exhaustive List of Work Involving Particular Risks to the Safety, Health and Welfare of Persons at Work		Risk Present?
1. Work which puts persons at work at risk of:		
(a)	Falling from a height,	✓
(b)	Burial under earthfalls,	✓
(c)	Engulfment in swampland	
where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or construction site		
2.	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.	
3.	Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Directive 96/29/Euratom ⁴ .	
4.	Work near high voltage power lines.	
5.	Work exposing persons at work to the risk of drowning.	✓
6.	Work on wells, underground earthworks and tunnels.	✓
7.	Work carried out by divers at work having a system of air supply.	
8.	Work carried out in a caisson with a compressed-air atmosphere.	
9.	Work involving the use of explosives.	
10.	Work involving the assembly or dismantling of heavy prefabricated components.	✓

5.2. Risks to Health, Safety and Welfare

The following health and safety risks should be considered by the PSCS when proposing methodologies for this project and when carrying out the works. This is not an exhaustive list and is included for information only: the PSCS is responsible for the health and safety of all stakeholders for the duration of the works and should apply the general principles of prevention in a consistent manner in accordance with Schedule 2 of The Regulations in order to protect the safety, health and welfare of those at work.

Significant risks:

- Work on and around partially collapsed structures with unknown stability and unknown nature of existing foundations in addition to masonry and mortar loss to existing structures leading to potential instability.

- Removal of bridge deck in constrained location.
- Restriction of movement of plant due to presence of trees and vegetation.
- Narrow road and the constrained nature of some elements will lead to site vehicles working in close proximity to workers.
- The location of the works will lead to interfaces with members of the public and public highways.

For additional risks relating to the existing site please refer to Design ID document 25319–DID-ZZ-XX-RP-C-4001 Bridge Rehabilitation Strategy Report.

5.3. Suggested Work Methods, Sequences or Control Measures

The PSDP does not have any recommended work methods, sequencing or control measures.

5.4. Arrangements for Handling Design Changes

If, due to unforeseen circumstance there are aspects of design which require modification post tender and these significantly affect health and safety the following procedure shall apply.

Arrangements for handling design changes are as per the Standard Conditions of Contract.

6 Safety File

6.1. Information Required for Safety File

In accordance with Regulation 21 of The Regulations 2013, the PSCS shall:

(a) coordinate arrangements among Contractors to ensure the provision of relevant information, in writing, necessary for the PSDP to complete the safety file referred to in Regulation 13, monitor the implementation of the arrangements and take any necessary corrective action, as set out in Regulation 20, and

(b) provide in writing to the PSDP all relevant information necessary for that project supervisor to complete the safety file referred to in Regulation 13.

The PSCS is to provide all information in hard copy.

The following documentation will be required from The PSCS for inclusion in the Safety File:

- General Project Information
 - Project Supervisor Construction Stage (PSCS) contact details.
 - Sub-Project Supervisor Construction Stage (PSCS) contact details.
 - Project Supervisor Construction Stage (PSCS) designer details.
- Design Information
 - Project Supervisor Construction Stage (PSCS) designed elements, e.g. plant / equipment / landscaping / etc.
- Construction Materials
 - Specification or data sheets for all materials installed as part of The Works.
 - Materials not in accordance with original specification.
 - Hazardous Materials – Material Safety Data Sheets / COSHH sheets.
- As Built Drawings and Record Information
 - As Built Drawings including mark up of design drawings.
 - Inspection and testing records.
 - All information required in accordance with Quality Management System.
- Operational Restrictions and Maintenance Procedures
 - Operating and Maintenance Manuals.
 - Maintenance Procedures.
 - Recommendations for decommissioning.

- Key Operational / Health & Safety Information
 - Building services and utilities including any changes to the services on site and any amended drainage, site lighting and layouts or similar function.
 - Emergency procedures.
 - Emergency and fire safety information.
 - Firefighting equipment.
 - Emergency lighting.
 - Electrical, gas and water cut off points.
- Surveys and Relevant Reports
 - Site survey information.
 - Ground or site investigation survey information arising from PSCS works.

6.2. Information Delivery Format

The file shall be provided in a single indexed electronic document format (including all manufacturers' data, drawings, etc). In addition, separate electronic copies of drawings in AutoCAD, and editable word or excel documents shall be provided.

Appendix A – Existing Service Responses

ESB

Gas Networks Ireland

Uisce Éireann

EIR Networks