Preliminary Health & Safety Plan

For

Clontuskert GroupWater SchemeCo –Operative Society Ltd
Tristaun Extension

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1.0 Introduction

The Safety, Health and welfare at Work (Construction) Regulations, 2013 (SI 291 of 2013) apply to this project. This Preliminary Health & Safety Plan outlines the primary risks associated with the proposed Works

2.0 Project Particulars

Job Title: Clontuskert Group Water Scheme Co-Operative Society Ltd-Tristaun Extension

PSDP: Conor Hayes Consulting Engineer

Contractor: TBC

3.0 Works Locations

Tristaun/Shanvoley ,Aughrim, Ballinasloe, County Galway

4.0 Commencement & Completion Dates

Expected Commencement Date: 01st February 2027

Expected Duration: 12 weeks

The Works shall only be carried out between 07:00hrs and 19:00hrs Monday to Friday.
The employer's permission will be required to carry out works outside those hours.
Appropriate lighting will be required when working in dark or twilight hours

5.0 Description of the Project

Lay 2260 meters of 90mm PE 100, SDR 11 and 610 meters of 63mm PE 80, SDR11 watermain

6.0 Sequence of the Works

The following is a summary of the works activities to be carried out on site and a list of the Health and Safety requirements to be met:

- All staff to be employed on site shall hold a valid *Safe Pass Card* along with appropriate and valid *CSCS* for the activity they intend to carry out. It shall be the responsibility of the PSCS to ensure that all works carried out on site comply with relevant Health & Safety legislation.
- Liaison with various Services Providers to obtain details and drawings of existing services within works site.

- Design and Installation of Traffic Management and Control by CSCS Signing Lighting and Guarding 3 Day Cardholder in accordance with Chapter 8 of the "*Traffic Signs Manual*" and "*Guidance for the Control & Management of Traffic at Roadwork's"* published by the Department of Transport (latest Editions and Amendments) and "*Guidelines for Working on Roads*" Published by the HSA. Provision to be made to ensure access is maintained along the public road during the works.
- Works area to be scanned for existing services by CSCS Location of Underground Services Cardholder in conjunction with the details and drawings provided by various Service Providers. The location of each individual service to be marked with different coloured road marking spray. Work crews to receive toolbox Health & Safety Talks on same.
- Line of proposed trench to be marked on site and the road to be saw cut with road saw by individual with current Abrasive Wheels Training.
- The contractor shall ensure that he has the necessary permission to enter onto any private lands from the relevant landowner and that temporary fences are installed as required to ensure that the lands remain stock proof during the works.
- Trench line to be excavated/directional drilled with excavator/Drilling Rig whose driver has received a CSCS Card to operate the machine. Any excess excavated material shall be removed off site to licensed tip site. Pipe laying works shall be carried out in accordance with the following HSA documents.

    - *Code of Practice for Avoiding danger from Underground Services*
    - *Code of Practice for Avoiding danger from Overhead Electricity Lines*
    - *A Guide to Safety in Excavations.*
- During the permanent trench restoration, the edges of the trench line shall be saw cut once more to allow a 100mm overlap onto the existing roadway either side of the trench. The top 75mm vertical faces of the existing road shall be sealed with hot bituminous binder.
- 14mm high PSV DBM to CI 912 of TII standard "*Specification for Road Works Road Pavements ,Volume 1,Series 900 – Bituminous Bound Materials*" which shall be laid to a minimum compacted depth of 75mm to bring the trench level with the existing road for road restoration. The trench line edges shall then be over banded with hot bituminous pitch to form a waterproof seal.
- Any damage to private lands shall be made good with topsoil, cultivated and grass seeded.
- The roadside verge shall be leveled with topsoil, cultivated and grass seeded.
- Once all works have been completed on site to the satisfaction of the Roads Authority, all Traffic Management shall be removed.

7.0 Statutory Bodies, Utilities and Service Providers, Overhead Power Lines and Underground Services

The successful contractor, who shall be appointed PSCS for the works in writing, shall submit to the Client's Representative a Method Statement for the works outlining the planned sequence of works, including a site specific risk assessment with mitigation

measures and controls for the risks identified. This shall be submitted 5 days prior to works commencing on site.

Any overhead power lines shall be identified on site and visibly marked with signage and the Contractor must comply fully with the ESB and HSA Code of Practice for working near overhead power lines i.e. "*Code of Practice for Avoiding Danger from Overhead Electricity Lines"*

Any underground power lines shall be identified on site and visibly marked with spray and the Contractor must comply fully with the ESB Guidance Documents & HAS Code of Practices for working near underground power lines i.e. "*Code of Practice for Avoiding Danger from Underground Services"*

Any underground telecommunications infrastructure shall be identified on site and visibly marked with spray paint and the Contractor must comply fully with the Services Providers Guidance Documents and HAS Code of Practices for working near underground telecommunications infrastructure i.e. "*Code of Practice for Avoiding Danger from Underground Services"*

Any underground storm, foul or land drainage systems {i.e. culverts} shall be identified on site and visibly marked with spray paint and the Contractor must comply fully with the Services Providers requirement to protect same. The requirements of the HSA Code of Practices for working near drainage systems i.e. "*Code of Practice for Avoiding Danger from Underground Services"* shall be complied with.

Traffic Management Safety and Control shall be provided for by the Contractor in accordance with Chapter 8 of the "*Traffic Signs Manual*" and the manual "*Guidance for the Control & Management of Traffic at Roadwork's*" published by the Department of Transport (latest Editions and Amendments) and "*Guidelines for Working on Public Roads*" published by the HSA. Provision should be made to ensure pedestrian and vehicular access is maintained through the "Works" Site during the works.

All excavation works carried out on site shall comply with the HSA Document "*A Guide to Safety in Excavations*" and any amendment or updates to same.

The following is a list of known contact details for Eircom, ESB, Bord Gais, Creggs Rural Development and Galway County Council.

Utillity Name	**Likely Contact Person**	**Contact Ph No.**
ESB { Emergency Ph No }	To be confirmed	1850-372999
Bord Gais{Emergency Ph No}	To be confirmed	1850-205050
Eir	To be confirmed	1901
Clontuskert Group Water Scheme Co Op Society Ltd	Christy Curley	087 2286455
Galway County Council	Frank Canavan B.E.	091-509000

8.0 Traffic Management

Traffic Management Safety and Control shall be provided for by the Contractor in accordance with Chapter 8 of the "*Traffic Signs Manual" and "Guidance for the Control & Management of Traffic at Roadwork's*" published by the Department of Transport (latest Editions and Amendments and the "*Guidelines for Working on Roads*" published by the HSA. Road sweeping and water sprinkling shall be employed by the contractor - if dirt on the road or dust become a problem.

9.0 PSCS Health and Safety File

It is mandatory for the successful contractor, who will be appointed as PSCS in writing, to visit the site and examine the hazards identified by the PSDP in the Design Risk Assessment . The PSCS shall examine the Design Risk Sheets in Appendix 1 to this preliminary Health & Safety Plan. The PSCS shall produce his own Safety Plan which will identify the hazards intrinsic in the "Works". He shall carry out site specific risk assessments in order to ensure the construction methods and type of plant proposed to be employed on site will engineer out the aforesaid risks. If that cannot be reasonably done he shall ensure that the work methods adopted are compliant with all relevant H&S Standards

This PSDP Preliminary Health and Safety Plan shall serve to walk the Contractor through the Health and Safety considerations in the design process and the conclusions reached. However, it does not form part of the Contract. The Contractor must verify for himself/herself any information contained in this Health and Safety Plan and satisfy himself/herself of the content and its accuracy.

The PSCS is required to keep a Safety File, under Regulation 13 of the Safety, Health and Welfare at Work 2006, and to ensure that this is kept up to date. In this regard, following the successful contractor's appointment as PSCS for the "Works", he will be required to prepare & maintain a Safety File on site for the "Works" and, following the successful completion of the "Works", this Safety File shall be passed to the PSDP, as the Client`s representative, following which the Contractor shall be removed in writing from his duties and responsibilities under his role as PSCS.

9.1 Contents of the Safety File

The safety file must contain information relevant to the following issues:

- Methods Statements for the various work operations in the contract
- Risk Assessments for the various work operations in the contract
- Training records and all qualifications, including any current CSCS cards of employees on site during the contract.
- Completed Inspection and Incident/Accident Report Forms and such like.
- Traffic Management Plan
- Insurances

Any other safety records relevant to the "Works".

9.2 Method Statements

The PSDP need to be satisfied as to the safety of the work methods adopted by the contractor. For that reason, method statements shall be submitted by the contractor and approved by the PSDP for the following operations, which is not exhaustive:

Excavating/Open Trench Cut on the private road.
Pipe Laying on the private road
Method statement for dealing with existing road features e.g.
Road culverts, overhead ESB Network cables, overhead Eircom cables etc
Working near or over water streams/rivers
Safety measures for workmen working on the public to mitigate risk from moving traffic and alongside excavation machinery

These method statements shall be included in the Safety File

The PSDP shall have one week to approve a method statement submitted by the successful contractor.

The purpose of the Safety File is to identify any risks associated with the "Works" and to identify and implement measures necessary to eliminate the risks. If this is not possible, every effort should be made to minimize same.

9.3 Risk Assessments

The Design Risk Assessment sheets for this project are contained in Appendix 1 to this Preliminary H & S Plan. The PSCS shall assess these sheets submit his own risk assessments which must be carried out prior to the works commencing on site. The PSCS shall identify any hazardous materials/activities and implement works procedures to eliminate or reduce the risk of the hazard. Records of risk assessments are to be kept on the Site Safety File. The risk assessments must be continuously assessed during the contract and the Safety File updated accordingly.

This method statement should incorporate the principles detailed in the following two publications:

- *Code of Practice for Avoiding Danger from Underground Services*
- *Code of Practice for Avoiding Danger from Overhead Electricity Lines*

All site staff will be required to wear suitable PPE as identified under the Safe System of Work Plan.

9.4 Training Records

A copy of all up-to-date CSCS cards for all the employees working on the site shall be kept in the Safety File for the duration of the "Works"

9.5 Emergency Procedures, Accident Inspection and Reporting

The PSCS shall nominate an individual who shall be on site at all times and who shall be fully briefed on all emergency procedures. The PSCS shall ensure that the emergency procedures, including relevant telephone numbers, will be posted on site. All accidents and near misses shall be assessed to see how operations can be carried out more safely. Any accidents shall be recorded in the safety file and the Clients Representative informed of same immediately. A written report regarding same shall be submitted to the PSCS within 2 days of it occurring. The Statutory Authorities shall be notified if relevant.

9.6 Traffic Management Plan

The successful Contractor must comply with the requirements outlined in the Preliminary Traffic Management Plan. The successful contractor must submit a Draft Traffic Management Plan for project no later than 5 days after signing a contract. The completed traffic management plan should be approved by the various stakeholders before the "Works" commence on site. The Works location shall be adequately signed with adequate visibility to avoid any traffic hazard. The choice for the location of the contractor's compound shall bear these issues in mind

9.7 Insurances

A copy of the contractors Insurance certificates shall be kept on the Safety File for the duration of the "Works". The renewal date for each policy shall be clearly displayed

9.8 Management of Safety on Site

The PSCS for the contractor shall appoint one of the contractor's on-site employees to take responsibility for Health & Safety matters during the contract Works. That employee's name, mobile phone number and qualifications shall be listed in the Safety File. In addition, where unforeseen risks arise, the Health and Safety issues associated with same shall be submitted to the PSDP as soon as possible after the event.

Any significant alteration to the scope of the "Works" must be vetted by the PSCS and the safety and health issues arising shall be submitted to the PSDP as soon as possible. The following completed contact details shall be entered into the Safety file:

Position	Name	Telephone No
Employer:	Clontuskert GWS Co Operative Society Ltd	087 2286455
Employer's Site Contact	Christy Curley	087 2286455
Project Supervisor for the Design Process	Conor Hayes Consulting Engineer	087-2576423
Project Supervisor for the Construction Stage	Selected Contractor	

Safety Advisor	To be confirmed by PSCS	
Site Safety Representative	To be confirmed by PSCS	
Health & Safety Co-ordinator for the Construction Stage	Successful contractor	
Local Doctor	To be confirmed	
Local Garda	Ballinasloe Garda Station	(090)9631890
Local Emergency Hospital	Portiuncula Hospital	(090)9648200

10 Health and Safety Co-coordinator

The successful Contractor will be required to appoint a Health and Safety Coordinator as envisaged by Article 17 (2) of SI 291 of 2013 to undertake, on behalf of the PSCS the duties specified in Regulations 16 and 17 of SI 291 of 2013. All sub-contractors shall comply with the main contractor's Health and Safety Plan

11 Environmental Impacts

All hazardous materials will be securely stored in the site compound (location to be confirmed) in accordance with the requirements of the material data sheets. All plant used on site shall be properly maintained and serviced so that there are no fuel or oil leaks. Re-fuelling of plant shall take place in the site compound over an impermeable surface/basin. No cement or concrete shall be allowed to enter the watercourse.

12A Particular Risks to Health & Safety Schedule 1 of S.I. 504 of 2006

The following work headings, items 12 (a) to 12 (j) are a non-exhaustive list of particular risks to safety and health of persons as set out in the Schedule 1 of S.I. 504 of 2006 together with the opinion of the Project Supervisor Design Process on what elements, if any of the works may fall within each particular risk category. A further work heading, item 12 B, is a non-exhaustive list of non-scheduled risks, which in the opinion of the PSDP should be considered by the PSCS.

Work which put persons at risk of:

(a) **burial** under earth falls, engulfment in swamp land – risk is low

(b) **falling from a height**, 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 site.

The pipes are to be laid using the Open Trench Cut technique. Where such excavations are opened, all excavation work shall be carried out in accordance with:

- Code of Practice for Avoiding Danger from Underground Services
- Code of Practice for Avoiding Danger from Overhead Electricity Lines
- A Guide to Safety in Excavations
  The risk here is slight

c Work which puts persons at risk from **chemical or biological substances** constituting a particular danger to the safety and health of such persons or involving a legal requirement for health monitoring. Risk here is moderate

(d) Work near **high voltage ESB Networks lines and cables** - It is the opinion of the PSDP that there is a significant risk here.

(e) Work exposing persons at work to the **risk of drowning –** It is the opinion of the PSDP that there is no significant risk here.

(f) Work on **wells, underground earthworks and tunnels -** It is the opinion of the PSDP that there is no significant risk here.

(g) Work carried out by **divers** at work having a system of air supply - It is the opinion of the PSDP that no particular risk exists in relation to this item.

(h) Work carried out in a caisson with a compressed-air atmosphere. - It is the opinion of the PSDP that no particular risk exists in relation to this item.

(i) Work involving the use of **explosives**

In the unlikely event that the PSCS's for the successful contractor proposes using explosives, the particular risk in relation to this item would be high. The PSCS would have to use a different method for removing rock.

(j) Work involving the assembly or dismantling of heavy prefabricated components

Work use of lifting gear, cranes, hoists and other lifting appliances.

The PSCS shall ensure that all slings, chains and lifting tackles used as part of the works shall be appropriately certified and tagged prior to use. All excavators to be used as a crane on the "Works" shall be appropriately tested and certified. All works in excavations shall be carried in accordance "*A Guide to Safety in Excavations*" documents published by the HSA.

12(B) Non-Scheduled Risks

- Works adjacent to **live traffic**. Particular care should be placed to ensure that all excavations are backfilled and reinstated at the end of each working day and that traffic control/management is removed.

- All traffic management and control shall be carried out in accordance with Chapter 8 of the "*Traffic Signs Manual*" and *"Guidance for the Control & Management of*

Traffic at Roadwork's" published by the Department of transport (latest Editions & Amendments) and *"Guidelines for Working on Roads"* Published by the HSA.

- Noise, vibration and nuisance caused by dust from the works. Maximum acceptable sound levels shall not exceed 70 decibles during 7:00am to 7:00pm. - no particular risk exists in relation to this item.

- Cutting, breaking and drilling concrete or bituminous materials. – moderate risk

- Operatives working in presence of plant and equipment. – medium risk

- Pedestrians, cyclists and motorists passing through the works and being exposed to hazard. The risk here. – high risk

13 Wellfare Facilities

The contractor shall make provision for welfare facilities for staff working on the project in accordance with the statutory H & S requirements. Adequate First Aid facilities shall be provided.