

PRELIMINARY SAFETY AND HEALTH PLAN

For

Proposed replacement of existing glasshouse
and associated works

at

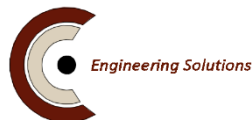
Castle, Glenveagh National Park,
Churchill, Leitir Ceannain,
Co. Dún na nGall

for

Glenveagh National Park



An Roinn Tithíochta,
Rialtais Áitiúil agus Oidhreachta
Department of Housing,
Local Government and Heritage



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Civil o Structural o Materials o Fire Engineering

Scope of Preliminary Health & Safety Plan

This Preliminary Safety and Health Plan is for proposed replacement of existing glasshouse at Glenveagh National Park Co. Donegal and has been prepared in accordance with the Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013).

The purpose of the plan is to provide information to the Project Supervisor for Construction stage to assist with the management of Safety & Health on site during work on this project.

It is the intention of the PSDP that the project be constructed in such a way that risks to the health and safety of all persons engaged in its construction, use and maintenance are eliminated or reduced to an acceptable level under current safety and health legislation.

The information contained in this plan has been prepared prior to the commencement of work on-site. This plan does not take into account any information which may come to light after the issue date. The appointed PSCS must bring to the attention of the PSDP any issues regarding Safety & Health on site in order for it to be addressed.

This Preliminary Safety and Health Plan relates to the building fabric and associated civil works. Any equipment installation not directly included as part of the construction contract shall fall outside the scope of this plan. Installation works of this nature may require an assessment of the health and safety implications in accordance with The Safety Health & Welfare at Work (Construction) Regulations 2013.

Document Approval

Project	Proposed replacement of existing glasshouse and associated works	
Client & Job No.	Department of Housing Local Government and Heritage	CC26-5065
Document Title	Civil Engineering Specification	

<i>Issue</i>	<i>Prepared by</i>	<i>Checked by</i>	<i>Approved by</i>
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1.0 NATURE OF THE PROJECT

The project consists of construction of an extension and modifications to existing fish processing facility.

1.1 Parties Involved

Client

Glenveagh N. P.
Churchill,
Letterkenny,
Co. Donegal

Tel: 076 100 2543
Contact: Denis Lafferty

Fax:
E-mail: denis.lafferty@housing.gov.ie

Structural Engineers & Project Supervisor Design Process

Carr Consulting Engineers,
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Northern Point Business Park,
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Tel: 074 9131060
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Project Supervisor Construction Stage

To be appointed

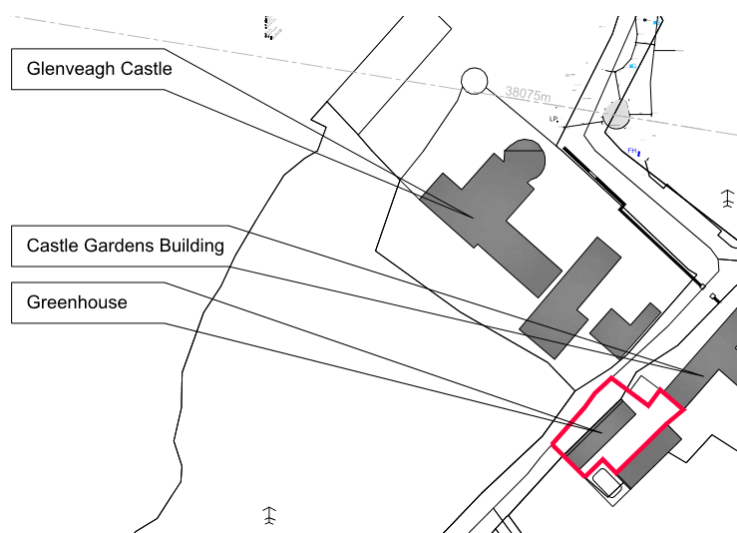
Tel:
Contact: E-Mail:

1.2 Site Location and Description

The site to which this document relates to is located at Glenveagh National Park Co. Donegal as shown in figure 1



Figure 1 Location map for proposed replacement glass house



Currently the site is a existing glasshouse in an enclosed court yard surrounding the castle.

The Project Supervisor Construction Stage (PSCS) must consider all interaction with the public/staff and the location of access and egress routes to the proposed works and site.

1.3 Scope of the Works

The scope of the works, envisaged for this contract, are summarised as follows:

Extensions and modifications to existing fish processing facility.

1. PSCS and all contractors to review site access, location of existing structures and services. Contractor to ensure that an adequate safety fence is in place to provide protection around the perimeter of the site prior to commencing excavations.
2. Contractor to identify and mark all underground and over ground services prior to commencing works.
3. Contractor to assess ground conditions with regard to stability of excavation plant during works and if required identify any preliminary works that may be required to facilitate access to the site.
4. Contractor to identify and secure the construction area of the site from unauthorised access by the use of security/safety fencing around the perimeter incorporating appropriate signage at entrance.
5. Dismantle existing glazing and steelwork identified for removal
6. Removal of battlements on top of the stone wall build-up wall to new height and replacement of lead flashing etc.
7. Excavation of raised greenhouse floor to lower floor level
8. Removal of floor at front greenhouse for replacement.
9. Supply and erection of new glasshouse super-structure, glazing and cold frames complete with doors windows and automation.
10. Construction of new floors at specified levels
11. Electrical works.
12. Plumbing works.
13. All other miscellaneous work
14. Conduct 'as built' survey of all works for inclusion in safety file.
15. Site tidy up & hand over.
16. Snag list period.

For a detailed description of the proposed works refer to Tender Schedule.

This is not an exhausted list, nor is it a sequence of events list, the contractor is responsible for developing a proper construction schedule showing the duration and sequence of the proposed works.

2.0 SITE PARTICULARS

2.1 Background Information

- The existing environment is a staff area within a National Park. The area to which the proposed works relate is within and around the glasshouse located on the site. Access to the site is via areas adjacent to the castle where visitors will be present. Contractor shall secure site area and shall develop safe methods of work based on risk assessments of site access arrangements and movement of plant and machinery to site.
- The contractor is responsible for his/her employee's safety, health and welfare on site. He is also legally obliged to take all reasonably practicable steps to ensure the safety of the general public and Glenveagh National Park staff that may be affected by the works on site.
- The main contractor will have responsibilities under current legislation as regards health and safety, and duties in relation to control of place of work, controls in relation to use of work equipment, personal protection equipment, manual handling of loads, electricity supply, working at heights, noise guidance, protection of young person's at work, safety signs at places of work first aid guidance & explosive atmospheres at places of work.
- Glenveagh staff will be informed by Denis Lafferty & with regard to the onset of these construction works.

2.2 Existing Drawings and Information

Drawings for these works have been prepared by Carr Consulting Engineers, the contractor shall consult these drawings and related specifications during the works.
See Appendix A for Drawing Register.

2.3 Existing Services

There are known electrical, heating drainage and water services within the site. The contractor must verify the actual location of these services by surveying the site area and using cable detectors as necessary. All services shall be made safe prior to commencement of works by the contractor.

2.4 Adjacent Structures/Projects

The site lies at Glenveagh National Park, Churchill, Letterkenny, Co. Donegal. There are a number of maintenance works but no significant work by external contractors on-going adjacent to this site:

North:	Glenveagh Castle
South:	Outhouses, diesel tank bund area and garden within Glenveagh National Park
East:	Castle garden building within Glenveagh National Park adjoining lough Beagh
West:	Glenveagh Castle Gardens

2.5 Site Access

Personnel Access

No unauthorized person to be allowed on site. Personal Protection Equipment to be worn by everyone who enters the construction site. All persons on site to have Safe pass training or equivalent professional training. Site safety rules shall be in accordance with Glenveagh N. P. procedures to be given to all construction personnel on the site. Drawings show contractors area in red.

Traffic Access

The contractor shall use the entrances to the south of the site for personnel access and deliveries. The roads adjacent to the site have a speed limit of 80km. Particular care should be taken when accessing and egressing from the site with slow moving vehicles onto the public roadway.

The Project Supervisor Construction Stage shall put in-place measures to minimise hazards in relation to:

- Access and egress of construction traffic.
- Parking and access arrangements for workers on-site.
- Security to the construction site area.
- Disposal of demolition materials and construction waste.
- Storage of materials on site.
- Sequence of the works.

Site Restrictions

Ensure all site boundaries remain secure at all times. All parking to be kept within the compound of the site. All materials to be stored within site boundary.

3.0 PROJECT TIMESCALE & INFORMATION

3.1 Timescale

The timescale for the overall completion of the construction works is expected to be approximately 2 months. This time scale is considered adequate although it is considered provisional until confirmation by the contractor and PSCS. The contractor shall submit his proposed programme for the works to the Client, PSDP and PSCS for review and approval prior to commencing work. It is also expected that the PSCS will provide adequate resources to meet this timescale, particularly with regard to the phasing and sequencing of all works.

3.2 Scheduling of Works

Contractor to prepare a programme in conjunction with the PSCS setting out the proposed sequence of the works.

Proposed sequencing of the works is expected to include:

- Dismantle existing glazing and steelwork identified for removal.
- Demolish existing floor slab and cold frames.
- Remedial works to battlements and perimeter stone wall including flashings etc
- Construction of new internal and external slabs.
- Electrical & Plumbing works.
- Installation of new super-structure glazing.
- Installation of irrigation and rainwater harvesting systems
- Installation and commissioning of automatic venting system
- Installation of new doors.
- All other miscellaneous work

3.3 Drawings and Information

The contractor should refer to the following:

- Drawings and Specifications provided by
Carr Consulting Engineers Ltd.

4.0 DESIGN AND PARTICULAR RISK ELEMENTS

The various identifiable risks associated with these works have been outlined in the sections below as follows:

4.1 Principal Hazards identified by the Design Team and/or PSDP

Hazards and work sequences identified by the designers and/or the project supervisor for the design process are listed below. These hazards may be a risk to the construction workers or others affected by actions of the construction works and which cannot be avoided.

- Coordination of general construction activities including deliveries and crange within the site. Sequence of work and traffic management in a horticultural facility. *This must be managed by the main contractor and, and should be addressed in the safety plan.*
- Working at heights during stone wall construction plus removal and installation of new glass house super structure and glazing panels. *This must be managed by the main contractor and, and should be addressed in the safety plan.*
- Risk posed by existing services (electrical heating and sewers) in vicinity of excavations, which could cause death or serious injury to personnel and/or damage to these services. Identification of existing services. *This is the responsibility of the main contractor to survey services and manage any risks.*
- Removal and disposal of spoil. Spoil must be checked for contamination. Any likely contamination is unlikely to be hazardous but may require specialist disposal. *This is the responsibility of the main contractor to co-ordinate safe disposal.*
- Handling and crange of heavy prefabricated components such as erection of structural steel and glazing panels.

4.2 Other Identified Hazards

- Lifting operations and manual handling.
- Dusts and noise during site works.
- Trips and falls due to uneven ground during site works.

This is not a comprehensive list of every hazard that may be present.

4.3 Particular Risks

The following is a non exhaustive list of work involving Particular risks to the Safety & Health of a person at Work as set-out in Second Schedule of the Safety, Health & Welfare at Work (Construction) Regulations 2013.

It should be noted that that the risks included in this list are risks that are foreseeable at the design stage. Many risks arise out of working methods selected by the contractor and as such cannot be determined at Preliminary Plan Stage. Any resulting unforeseen hazards not included in this preliminary plan are to be addressed by the PSCS and the individual contractors themselves.

The following is a non-exhaustive list summarising the particular risks referred to in the Second Schedule.

No.	Description from	Applicability & advice
(a)	<i>'Work which put persons at work at risk of burial under earthfalls, engulfment in swampland or 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'</i>	Construction personnel will be working at a height replacing flashing to stone wall and erecting the new glasshouse. -Dismantling of existing glass house super-structure and glazing units. -Erection of glass house super-structure and glazing Advice to PSCS PSCS to ensure safe working practices are adopted on-site.
(b)	<i>"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 requirements for health monitoring".</i>	N/A
(c)	<i>"Work with ionising radiation requiring...."</i>	N/A
(d)	<i>"Work near high voltage power lines.'</i>	None identified Advice to PSCS Ensure all services within the site are identified and if necessary isolated during the works. Particularly with regard to High Voltage underground power lines, contractor to consult with ESB.
(e)	<i>"Work on wells, underground earthworks and tunnels...."</i>	N/A
(f)	<i>"Work carried out by divers at work having a system of air supply...."</i>	N/A

(g)	<i>“Work carried out in a caisson with a compressed air atmosphere...”</i>	N/A
(h)	<i>“Work involving the use of explosives”</i>	N/A
(i)	<i>“Work involving the assembly or dismantling of heavy prefabricated components”</i>	Dismantle structural steel work and glazing. Erection of structural steel frame. Erection of new Glazing. Advice to PSCS PSCS to ensure safe working practices are adopted on-site.
(j)	<i>“Work exposing persons at work to a risk of drowning”</i>	N/A
	Other Particular Risks	
(k)	<i>“Interaction of Glenveagh staff and visitors with Construction traffic and heavy plant”</i>	Access and egress from the work area and interaction with Glenveagh staff and the general public. Advice to PSCS PSCS to develop a method statement for management of construction traffic and heavy plant in Glenveagh N. P. during the works

5.0 SITE RULES

The Contractor shall at all times follow the rules and requirements as set out in the contract documents and in addition obey any rules put in-place by Glenveagh National Park management.

6.0 CONTINUING LAISON

The PSCS and the PSDP shall be in contact on a regular basis and in addition a site meeting shall be held at the start of work and periodically as agreed thereafter at which the PSCS and PSDP attend. The overall construction safety plan will be prepared by the PSCS in order to oversee and co-ordinate the main construction works and related site activities including works affecting persons not involved within the development.

6.1 Procedures for dealing with design changes

Details of any re-design found to be necessary, together with details of the hazards and risk assessments are to be submitted to the PSDP for consideration in due time before execution of the work.

6.2 Procedures for dealing with unforeseen eventualities

Procedures to be put in place for dealing with unforeseen eventualities during project execution resulting in substantial design change which might affect contract period and other resources. Should such eventualities occur the Project Supervisor for the Construction stage should promptly bring this to the attention of the Project Supervisor for the Design Process. Procedures for considering health and safety aspects of the design elements for the Project Supervisor Construction Stage. In the event of significant unforeseen risks coming to light during the execution of the works, such as would affect the safety on the site, the Project Supervisor for the Construction stage shall inform Project Supervisor for the Design Process so that any changes to the design that may be required can be agreed.

The overall construction safety plan will include risk assessments, safe system of work plans (SSWP) and specific method statements for site works in general as well as from any individual specialist contractors.

7.0 SAFETY & HEALTH PLAN

During the construction phase, the Health and Safety Plan is the responsibility of the PSCS. Safety and Health must be an agenda item in the meetings and all contractors shall provide a Safety and Health report.

8.0 SAFETY FILE

Carr Consulting Engineers Ltd the appointed PSDP will prepare and hand over the safety file. The file will be updated as the project progresses through site meetings and correspondence with the various design personnel and contractors. The PSDP will be requesting all relevant information from the PSCS to prepare the safety file at the completion of the development. Information as regarding the lifetime issues of the building will also be requested. PSCS co-operation will be required as to prepare the Safety file. All information regarding materials used in the construction of the building together with operation and maintenance manuals to be recorded within safety file.

It will be assumed for this development the PSCS will co-operate fully and will provide all information, risk assessments and method statements as may be required during the construction phases. The guidelines to the Safety, Health and Welfare at Work (Construction) Regulations 2013 provide general details of the information that may be included in the Safety file.

Appendix A – Drawings

Drawings associated with this preliminary H & S plan are enclosed as follows:

S-101 - Site Plan and Location Plan

EC 101 – Existing Plan & Elevations

EC 102 – Existing Plan Layouts

EC-103 – Demolition plan

EC 201 – Proposed Elevations & Cross-sections

EC 202 – Proposed Plans Layouts