

# Crom Landscape Project



# National Trust

## General Pre-Construction Information (Phases 1 & 2)

National Trust, Northern Ireland

Project number: 10031369

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## 1. Project Description

The National Trust (the Client) has prepared this General Pre-Construction Information in accordance with Regulation 4 (4) of the Construction (Design and Management) Regulations (Northern Ireland) 2016, Statutory Rule No 146. This documentation should be read in conjunction with Phase 1 works specifications and methodology and Phase 2 works specifications and methodology.

This document has been prepared based on general information available from the Client and from subsequent/additional surveys.

The Client must ensure that a competent Principal Contractor is appointed for the duration of both Construction Phases 1 and 2 for this project.

The Principal Contractor, as appointed for each construction phase, must develop the Construction Phase Plan prior to site works commencing and to submit this to the Project Manager (on behalf of the Client) for review no later than 1 week prior to the proposed commencement date for commencement of construction/site works.

Suggested contents of the Construction Phase Plan can be found in Appendix A of this document.

The Principal Contractor is responsible for the upkeep and on-going development of the Construction Phase Plan during the relevant construction phase of works (Phases 1 & 2). Audits of the Plan will be carried out by the Project Manager on behalf of the Client if requested.

This General Pre-Construction Information document must be used as a basis for the management of health and safety matters during the detailed design development phases and be updated to incorporate health & safety matters which may arise during the project.

### 1.1 Description & Programme Details

Crom, Co. Fermanagh is a 2000 acres estate which straddles the shores of Upper Lough Erne and is owned and managed by the National Trust. The property is located circa 7 miles south of Lisnaskea and 3 miles west of Newtownbutler. Crom offers a spectacular setting for people to reconnect with heritage, it is a place where natural beauty, human and historic interest and biodiversity go hand in hand, where land and water are inseparable. The layout of the historic demesne is one of only a few surviving landscapes which were designed by W.S Gilpin and is breathtakingly beautiful. Crom is also an immensely important site for nature conservation. The combination of the lough, wetlands, ancient woodlands, and open parkland provides a unique range of habitats for many rare species. As a conservation site it is recognised and designated an ASSI, SAC, RAMSAR and a NNR.

This project is being delivered through The Lough Erne Landscape Partnership (LELP) which comprises RSPB NI [lead partner], Fermanagh and Omagh District Council, Waterways Ireland, National Trust and Fermanagh Rural Community Network. Under the project title 'Accessing the Natural Heritage of Upper Lough Erne at Crom' the aim of this project is to increase the access to Crom estate and Upper Lough Erne, encouraging users to engage with their landscape, interpret their heritage and to connect with nature.



The principal funding for the project is being provided through the *National Heritage Lottery Fund* (NHLF) with additional funding being allocated through the *DAERA Environmental Challenge Fund 2021/22*, specifically for the Phase 1 site works.

Project works are designed to improve visitor access and orientation within Crom Estate and have been split into two Work Phases, both of which are undertaken across Crom's registered historic parkland, and these consist of the following items:

**Phase 1;** Improvement works to include: localised repair of an existing c.2.3km access trackway located on Inisherik Island, cleansing of open sheughs/ditches and buried cross drains along the route of the existing trackway, repair 1 no. piped cross-drain, installation 6 no. wooden bollards and all other associated site work.

**Phase 2;** Improvement works to include: localised repair and/or resurfacing of combined c.1.73km of existing access trackways and paths, the construction of c.2.1km of new pedestrian pathways in a combination of self-binding dug and floating path sections, 1 no. section of 372m length, grass path to be reinforced with stone and 1 no. 193m length section of timber boardwalk, also removal of sections of redundant stockproof fencing, installation of sections of new stock proof fencing, installation of c.8 no. accessible kissing gates, 10 no. field gates, 6 no. wooden bollards, c.29 no. signs (directional, information and warning signs, as detailed in Phase 2 prescriptions), 1 no. c.60m<sup>2</sup> stone reinforced grass parking area, 1 no. c.12m<sup>2</sup> stone reinforced grass vehicle passing bay, repair and rebuilding of an existing part-piped culvert roadside drainage system along c.300m length main avenue, cleansing of existing drainage sections along selected path routes, installation of new drainage sections associated with new path sections, as detailed in prescriptions, and all other associated site work.

## **1.2 Details of Client and Consultants**

**Client:** National Trust, Northern Ireland

Rowallane Stableyard, Rowallane Gardens, Saintfield Co. Down BT24 7LS,

Client Liaison: Project Manager

**Project Manager:** Malachy Conway, National Trust, Northern Ireland,

Email; [malachy.conway@nationaltrust.org.uk](mailto:malachy.conway@nationaltrust.org.uk) Mob: 07881 851633

PM Liaison: Nicola Evans, [nicola.evans2@nationaltrust.org.uk](mailto:nicola.evans2@nationaltrust.org.uk) Mob: 07966 763816

### **National Trust Staff & Project Consultants;**

PM/Archaeologist; Malachy Conway, Email [malachy.conway@nationaltrust.org.uk](mailto:malachy.conway@nationaltrust.org.uk) Mob: 07881 851633

Building Surveyor; Rory Hackett, Email [rory.hackett@nationaltrust.org.uk](mailto:rory.hackett@nationaltrust.org.uk) ; Mob:

Countryside Manager; Malachy Martin, Email [malachy.martin@nationaltrust.org.uk](mailto:malachy.martin@nationaltrust.org.uk)

Area Ranger; Matthew Scott, Email [matthew.scott1@nationaltrust.org.uk](mailto:matthew.scott1@nationaltrust.org.uk) ; Mob: 07920 722715

Planning Advisor; Elaine Devine; Email [elaine.devlin@nationaltrust.org.uk](mailto:elaine.devlin@nationaltrust.org.uk)



### **1.3 Intended Contract Commencement Date**

Phase 1 intended contract commencement date on site is from end December 2021.

Phase 2 intended contract commencement date on site is April 2022.

### **1.4 Intended Contract Completion Date**

Phase 1 intended contract period is 8-9 Weeks. To be completed by end of February 2022

Phase 2 intended contract period is 50 Weeks. To be completed by end of February 2023

A detailed programme for the works must be developed by the Principal Contractor for approval to ensure that the site operations can be completed with due regard to the safety of operatives during the project. The Principal Contractor must submit the Construction Phase Plan and programme for review at least 1 week prior to commencing work.

### **1.5 Extent and Location of Records and Plans**

Drawings indicating the existing site layout, information from National Trust and from on-site investigations and the extent of the proposed works have been provided as part of the Contract Documentation.

**Phase 1 Drawings;** *100a Landscape Overall, 110a Landscape Layout, 310 Timber Bollard*

**Phase 2 Drawings;** *100 Landscape Overall, 101, 102, 103, 104, 105, 106, 107, 108, 109, 300 Typical surfaces, 301 Stone Paths, 302 Timber Boardwalks, 303 Estate Metal Fence, 304 Estate Metal Gates, 305 Stock-proof fencing, 306 Timber Post & Rail fence, 307 Wooden field gate, 310 Timber Bollard*

Drawings showing the existing service locations for the proposed site, where known, have been supplied within the contract documentation.

### **1.6 Communications with Client/Project Team/Principal Contractor/Others**

The information contained in this General Pre-Construction Information has been prepared before the commencement of the site works for Phase 1. It does not take account of matters that may become known after that time.

The Client is committed to ensuring there is effective communication among Parties involved in the project and that all exchanges of relevant information is carried out efficiently.

Regular site meetings will be held to discuss technical and programme specific matters. Health and Safety will be an item on agenda for these meetings and the Principal Contractor will be required to report all reportable accidents to the Health and Safety Executive and must continually update the Construction Phase Plan.

The Project Manager will chair the meetings and provide minutes and items for action, with those responsible identified. All communications will be via the Project Manager who reports directly to the Client.



## 2. Clients Considerations & Management Requirements

### 2.1 Planning for/management for construction work, including health & safety

2.1.1 Prior to the commencement of site works the Principal Contractor must:

Prepare a Construction Phase Plan which is sufficiently developed for the Management of Health and Safety on site; suggested contents for this Construction Phase Plan are outlined in Appendix A of this document.

The Client has the following Health and Safety goals for this project:

- The Client considers the Health and Safety of the Public, Employees and Contractors to be of paramount importance.
- The Client's aim is to promote a safe and healthy working environment and to prevent deaths or serious injuries occurring and reduce incidence of accidents at the works site.

The Client's priorities for the site works are as follows:

- To prevent death or serious injury from occurring on the site.
- To promote an ethos to prevent, as far as is reasonably practicable, nuisance and disturbance to property staff, tenants, adjacent property owners and the public.
- That the Principal Contractor provides adequate resources for the safe implementation of the Contract.

The Client is committed to promoting and monitoring these goals through close liaison with the project team and by actively promoting their commitment to Health and Safety, by updating and reviewing policies, procedures, and practices. In addition to attending monthly progress meetings the Client has a Health and Safety representative who may visit the works site periodically to monitor Health and Safety.

The Client stipulates that the following site rules will apply at the site.

- Principal Contractor must comply with all relevant Health & Safety Legislation. Attention should be paid to the *Construction (Design and Management) (Northern Ireland) 2016 Regulations*, and *Fire Safety in Construction Works (HSG 168)* and the *Work at Heights Regulations 2005*.
- Principal Contractor shall provide warning signs to alert traffic and pedestrians at the approaches to the works site and within the area to be used for any proposed compound.
- The Principal Contractor must secure his work area to protect the public who might gain unauthorised access to the work site. All hazards must be cleared off-site, and the work area must be secured at the end of each working day and at weekends and during school/public holidays when there is likely to be no site works activities on site.
- Principal Contractor must minimise noise and dust pollution at the source, as far as is reasonably practicable. Items of plant must be sufficiently silenced and plant not in use should be switched off. Cutting equipment must be fitted with dust suppression devices.



- Controlled and uncontrolled waste must be disposed of in accordance with relevant environmental regulations.
- The Principal Contractor's vehicles are to be parked in a manner not to cause disruption to normal activities and access within Crom Estate and any the surrounding areas.
- Site works must be restricted to the boundaries marked up on any site layout drawings provided, or as are prescribed within the Contract documentation.
- Principal Contractor must not make or allow incursions into any other areas of the works.
- Services must be located, confirmed, and clearly marked up before commencing any excavations required. The Principal Contractor must ensure that services are either dead or isolated before carrying out such works.
- The burning of rubbish/waste materials is not permitted anywhere on the site.
- Playing of radios, swearing and horse playing is not permitted on the site.

The Principal Contractor must compile site rules in his Construction Phase Plan to control the risks arising from the hazards identified in the Project Design Team's Risk Assessment (see Appendix B). The Client's normal site rules will apply and specific rules conforming to the standards called for in the Contract documentation shall be established for.

- Site training of operatives
- Control of unauthorised access to site
- Minimising nuisance and general disruption to the public
- Traffic management proposals

The Principal Contractor may have additional specific site rules which should be included in his Construction Phase Plan.

### 2.1.2 Site Security:

Crom Estate is accessed by vehicle from Lehinch Road through a gated entrance. This entrance gate normally opens at 9am and closes at 4pm during November-March and then between 9am to 6pm at other times. A numerical code is required onto a keypad to enter the site when the entrance gate is closed. The gate will automatically open when it is approached by a vehicle from within the estate.

Crom Estate, its grounds, woodlands and visitor car park will remain open to the public during both Phases 1 and 2 site works periods.

The Principal Contractor must have his own security arrangements to prevent unauthorised access to the site of works, including to any site compound or welfare facility being used on the site, but must not compromise the safety of the public.

The Principal Contractor must segregate his works and access from those using the Estate Roads. Effective signage must be erected on the site, and all works areas must be properly secured at the end of each workday and at/over weekends. Open excavations must be covered and cordoned off.

Stores and materials must be stacked and secured in a manner so not to cause injury to anyone who may gain unauthorised access to the works site or compound areas.



### 2.1.3 Welfare Provision:

The Principal Contractor must provide his own adequate on-site messing, washing and toilet facilities prior to works commencing in accordance with Schedule 2 of the '*Managing health and safety in Construction CDM Regulations 2016*'. These facilities must be kept clean and secure.

Areas have been identified and agreed as being suitable for the Principal Contractor to use as site compound and for welfare facilities; Note that this will be within the walled garden during Phase 1 works (refer to site layout plan 100a and 110a) and at the Farm Buildings complex during Phase 2 (refer site layout plan 100). The Principal Contractor may, by prior agreement, arrange for satellite welfare facilities, subject to any constraints due to access, natural or archaeological restrictions etc. Refer to CDM Development Plan in the works information.

## **2.2 Health and Safety Requirements of the Clients employees or others involved in the project:**

### 2.2.1 Works Site hoarding requirements:

The works site is to be made secure from unauthorised access. Hoardings and/or fencing are as per outlined in the specification.

### 2.2.2 Site transport arrangements or vehicle movement restrictions:

All vehicular access into Crom Estate is by the main gated entrance on approach road. Access is to be arranged for all delivery vehicles in advance. Refer to Dwg 'CDM Development Plan' in the Works Information, and included in this document as Appendix C.

The Principal Contractor must ensure there is minimal disruption along the main access and approach road and all other internal access roads within Crom Estate to the normal activities at the property, to the houses/residences, to public access to the grounds and woodland areas and to agricultural tenancies. Reversing movements must be kept to a minimum, or ideally be avoided.

### 2.2.3 Client's "permit to work" systems:

A permit to work system will be in operation for connections to any National Trust services during the site works period and a permit to work must be issued by the Client's site management, who will through a contact on site, be introduced to the Principal Contractor prior to commencing site works.

Isolation of essential services or hot works are deemed "permit to work" activities. The Principal Contractor should take this into consideration when preparing his programme of works.

The Client has stipulated those normal working hours for the site will be 08.00-1800 Monday to Friday and 08.00-13.00 Saturday. Working outside of the stipulated normal times will only be permitted with agreement and written permission of the Project Manager.

### 2.2.4 Fire precautions:

The Principal Contractor must provide portable firefighting equipment on site, and his Operatives must be trained in its operation. Contractor's equipment must be checked to ensure that it is in good working order. Care should be taken to avoid any naked flames.



#### 2.2.5 Emergency Procedures and means of escape:

The Principal Contractor should record in his Construction Phase Plan the names, addresses and contact numbers of the nearest Fire Station (Lisnaskea), Doctor or Hospital (Newtownbutler) and PSNI Station (Lisnaskea) for non-emergency contact.

The Principal Contractor is also responsible for the preparation and policing of his own site emergency procedures for other areas of his working. The Principal Contractor must practise drills regularly to ensure that the site emergency procedures are well understood by his operatives.

All means of escape must always remain free from obstructions.

#### 2.2.6 No-Go areas:

The Principal Contractor is restricted to working within the designated areas as defined by the path route corridor on which the works are taking place and as shown on site layout drawings provided as part of the Contract Documentation. All construction materials and equipment and plant must be placed in a manner that will not disrupt normal everyday activities within the estate.

#### 2.2.7 Areas Designated as Confined Spaces by the Client:

There are no areas within the scope of the works which would be deemed a confined space as defined by the *Confined Spaces Regulations*.

#### 2.2.8 Parking restrictions:

The Principal Contractor must not park his vehicles, plant, or store his equipment and materials anywhere other than in his compound area or within the designated work boundary/corridor. He must not inconvenience or impede normal traffic flows within the estate or the surrounding roads.

The Principal Contractor's compound will be placed in the areas as shown on the site layout drawings; southwestern area within the walled garden on Inisherck during Phase 1 works and at the Farm Buildings off the main avenue during Phase 2 works. These will be confirmed at the respective pre-start meetings at each work phase.

## **3. Environmental Restrictions & Existing Site Risks**

### **3.1 Safety Hazards**

As each working area poses its own constraints, which may in turn pose hazards to those involved in the site works, the key risks identified by the Client are:

- Working in an area open to/near the public throughout the works period.
- Working near/within listed buildings or Scheduled Monument areas within the site. (Refer to Dwg showing Existing Layout and Built Heritage)
- Working near livestock kept on the estate farmland.
- Working close to private residences within the estate.
- Working near the main access roads and the entry/exit point into the estate.



- Working near existing services.
- Excavation for foundations.
- Lifting operations.

#### 3.1.1... Boundaries and Access:

The site works areas as shown on site layout drawings are surrounded by parkland, woodland and open fields used for grazing, with access roads and private residences also within surrounding area.

Estate farmland is bounded by either stock proof fencing or metal estate type railings and the access into such field areas is through locked farm gates.

There are three bridges which are located within or near to the contract work areas, which have weight restrictions for vehicle or load access. The White Bridge is the only access route onto Inisherk Island, and this has an 8-ton (loaded) weight limit. Further details are provided in the specification's documents for Phase 1 and Phase 2.

#### 3.1.2... Restrictions on deliveries/waste collection/storage:

All deliveries or waste collection must be carried out in a manner to avoid unnecessary disturbance to normal activities within the estate grounds, or to lead to congestion along estate roads in the vicinity of the site works.

Materials must be stored in a manner not to injure members of the public, especially children, who may gain unauthorised access onto the site works area. Construction materials must be stored only within the site works boundary/agreed working areas.

#### 3.1.3... Existing storage of hazardous materials:

None.

#### 3.1.4... Location of existing services particularly those concealed:

Services information has been obtained and is included in the contract documents.

- NI Water; Watermain runs through the site.
- NIE; 11kv overhead supply to houses/buildings as shown on layout drawings
- Gas; No buried or piped-in gas supply within the estate.
- BT; Telecoms ducts extend through the site and also via some overhead poles to certain buildings.

It is the Principal Contractor's responsibility to scan, locate or confirm and mark up services on site before carrying out any ground works. If disruption of services is unavoidable, the Principal Contractor must liaise with the Client's site staff in advance and must obtain the necessary permits. Disruptions must be avoided or kept to a minimum and alternative arrangements made as may be necessary.

#### 3.1.6... Ground Conditions:

For both Phase 1 and Phase 2 site works, Area of Special Scientific Interest (ASSI) Consent is required to enable site works to proceed. The ASSI consents will be obtained from NIEA (DAERA) by the Client in advance of the commencement of those site works. The Principal Contractor must adhere to all conditions issued through the grant of ASSI consent for the relevant site works operations.

An Archaeological programme of works is required for specified site works which will be carried out during Phase 2 and will include granting of Scheduled Monument Consent (SMC), as per the works information. Both the SMC and any Archaeological Monitoring Licence required, will be obtained from



Historic Environment Division (DfC) by the Client in advance of the relevant site works taking place. The Principal Contractor must adhere to all conditions that are issued through the SMC.

The Principal Contractor must monitor the estate road conditions during the site works, especially while excavation works are being carried out and must ensure that roads are kept clean of debris and mud etc which may be generated through his works/construction traffic.

#### 3.1.7 Existing Structures:

No works are being proposed to standing buildings or historic structures in either phase of proposed works. The proposed site works are located so that they do not pose any issues, or threats, to any of the listed buildings or other historic or notable structures within the property.

### **3.2 Health Hazards**

#### 3.2.1 Asbestos:

N/A

#### 3.2.2 Existing storage of hazardous materials:

There are no known hazardous materials stored at the site of the proposed works.

#### 3.3.3 Contaminated Land:

None identified.

#### 3.2.4 Health Risks arising from the Clients activities:

The Client shall not be conducting any activities at the site which could pose a health risk; however, the Principal Contractor should liaise closely with the National Trust property staff at Crom to be aware of any potential on-going works and assess the risk as appropriate.

## **4. Design & Construction Hazards**

### **4.1 Design Assumptions & Control Measures.**

#### 4.1.1 Design Assumptions:

The significant design assumptions specified by the Project Team are as follows:

- Traffic movement must be maintained within the estate.
- Materials will be stored only within agreed/designated areas.
- No interruption for access to houses and in-use buildings during the site works.
- Principal Contractor will coordinate operations with National Trust property staff at Crom to ensure services and emergency systems are maintained.



#### 4.1.2 Control measures:

The Contractor must put in place control measures for the various hazards identified previously, though particular aspects include:

- Vehicles will, so far as be reasonably practicable, be segregated from the public using signage, barriers etc as required and especially in the vicinity of in-use buildings and public access routes.
- The Principal Contractor to maintain sight lines at the entrance to all areas of his site works and to ensure safe access/egress from the site working areas.
- Services will be identified and marked where found.
- Wheel washing measures to be implemented to prevent site debris onto estate roads.
- Manual handling will be minimised through use of suitable portable lifting equipment.
- Personal Protective Equipment (PPE) must be worn by site operatives.
- Adequate measures will be put in place to prevent unauthorised access to site works areas.
- Other control measures as necessary, to comply with relevant safety and health legislation.

#### 4.1.3 Arrangements for co-ordinating ongoing design work and design changes:

Procedures for dealing with unforeseen events during the project works which may result in substantial design changes required, and which might affect resources are as follows:

- In the event of any unforeseen circumstances, the Principal Contractor must immediately inform the Project Manager.
- Health and Safety issues arising from any unforeseen occurrences are to be submitted to the Project Manager as soon as possible after the event.
- In the event that re-design is required for whatever reason, the Health and Safety implications of the re-design are to be submitted for consideration by the Project Manager in due time before the execution of those works.

#### 4.1.4 Principal Contractor's Design:

All temporary works are the Principal Contractors design.

#### 4.1.5 Ongoing Design:

The Project Manager will notify the Principal Contractor of the design process for any relevant changes during the construction of the works.

The health and safety issues arising from continuing design during construction phases must be referred to the Project Manager.



## **4.2 Health & Safety Risk Information**

Construction Stage Hazards or work sequences identified by the Client's Project Team, which could not be designed out are listed below and are for guidance purposes only. The Principal Contactor must prepare his own method statements and carry out appropriate risk assessments of the site activities.

4.2.1 Works which put persons at risk of falling from a height, burial under earthfalls or 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 works:

There will be no works at height.

4.2.2 Work which puts persons at risk of chemical or biological substances constituting a particular danger to the health and safety of persons:

None identified, however, risk of Weil's Disease for example should be considered in workings with drainage elements, such as at streams/small shallow watercourses.

4.2.3 Working near High Voltage Power Lines:

Drawings showing the location of overhead power lines within the site works area have been prepared and made available.

The Principal Contractor must provide appropriately sized goal post barriers in areas where over-head cables cross the area of site works.

4.2.4 Works with Risk of Drowning:

None.

4.2.5 Work on Wells, Underground Earthworks and Tunnels:

None.

4.2.6 Work Involving Assembly or Dismantling of Heavy Prefabricated Components:

None.

4.2.7 Non-Schedule Risks:

The following risks may be present, and the Principal Contractor must put in place measures to eliminate or manage them.

- Working in public areas, with public access for vehicles and pedestrians.
- Working in areas with presence of livestock, e.g., cattle/sheep/deer.



## 5. Health & Safety File

### 5.1 Description, format & conditions relating to H&S file content

The Principal Contractor shall maintain and update his Construction Phase Plan throughout the duration of the Contract phase, parts of which may be incorporated into the H&S File.

Information for the H&S File must be produced in sufficient time for the Project Manager to compile the File for issue to the Client on Practical Completion of the works phase.

The H&S File will include 2 copies of the following items in a digital format:

- Project particulars
- Contact details for contractors, sub-contractors and suppliers
- As constructed drawings
- Product data information for installation items on site
- Mechanical manuals including as installed records, product data and certification
- H&S statement in respect of residual risks, issues with maintenance/servicing works

The above list is not exhaustive, and the Principal Contractor must include any Health and Safety information which he is in possession of, or aware of, which may have an impact on the Health and Safety of personnel in the future use, maintenance, servicing, or other construction works at the site.



## Appendix A: Suggested Contents of the Construction Phase Plan

The format of The Construction Phase Plan is not prescriptive, however whatever format the Principal Contractor may adopt for his plan, it should consider each of the following (where applicable), and the level of detail proportionate to the risks involved in the project.

- **Description of Project**
  - a. Project description and programme details including any key dates.
  - b. Details of Client, Project Manager, Designers, Contractor, and other consultants.
  - c. Extent and location of existing records and plans relevant to health and safety on site.
  - d. Arrangements for Communicating with Contractors, Project Manager, and others as appropriate.
- **Communication and Management of the Work**
  - a. Management structure and responsibilities.
  - b. Health & Safety goals for the project and monitoring/review of H&S performance.
  - c. Arrangements for:
    - i. Regular liaison between parties on site.
    - ii. Exchange of design information between Client, Project Manager and Contractor on site.
    - iii. Handling design changes during the project phase.
    - iv. Selection and control of contractors.
    - v. Exchange of Health and Safety information between contractors.
    - vi. Site security.
    - vii. Site induction.
    - viii. Onsite training.
    - ix. Welfare facilities and First Aid.
    - x. Reporting and investigation of accidents/incidents (including near misses).
    - xi. Production and approval of risk assessments and method statements.
  - d. Site rules (including drug and alcohol policy).
  - e. Fire and emergency procedures.



- **Arrangements for Controlling Site Risks**

- a. Safety risks, including:

- i. Delivery and removal of materials (including waste) and work equipment, taking account of risks to the public, for example during access/egress from works site.
    - ii. Dealing with services – e.g., water, electricity (including overhead powerlines).
    - iii. Accommodating adjacent land use.
    - iv. Stability of structures whilst carrying out construction work.
    - v. Preventing falls.
    - vi. Work with/near fragile materials.
    - vii. Control of lifting operations.
    - viii. Maintenance of plant and equipment.
    - ix. Work on excavation, including in poor ground conditions.
    - x. Work on/near water where there is a risk of drowning.
    - xi. Traffic routes and segregation of vehicles and pedestrians.
    - xii. Storage of materials (particularly hazardous materials) and work equipment.
    - xiii. Any other significant safety risks.

- b. Health risks, including

- i. Removal of asbestos.
    - ii. Dealing with contaminated land.
    - iii. Manual handling.
    - iv. Use of hazardous substances.
    - v. Reducing noise and vibration.
    - vi. Exposure to UV radiation (from the sun).
    - vii. Any other significant health risks.

- **The Health and Safety File**

- a. Layout and format.
  - b. Arrangements for collection and gathering of information.
  - c. Storage of information.

***Note: When the Client, or the Client's representative, is required to conduct a review of the Construction Phase Plan to ascertain whether the Plan is sufficiently developed to allow construction works to proceed on site, the above list will be used as the basis for the review***



## Appendix B: Client's Risk Assessments

Project Name: Crom Landscape Project						Project No. 10031369	
General Works comprising the following:						Drawing Ref No.	
<p><b>Phase 1</b></p> <p>1.1 Repair and maintenance of existing c.2222m trackway section on Inisherk</p> <p>1.2 Cleansing of existing drainage ditches, cross drains, outfalls</p> <p>1.3 Repair of 1 no. cross-drain</p> <p>1.4 Installation of 6.no. wooden bollards</p> <p><b>Phase 2</b></p> <p>2.1 Repair and maintenance of existing footpaths and trackways</p> <p>2.2 Cleansing of existing drainage ditches, cross-flows and outfalls</p> <p>2.3 Creation of new water bound footpaths including associated drainage &amp; surfacing.</p> <p>2.4 Creation of new stone reinforced grass car parking area.</p> <p>2.5 Soft landscaping to include: earthworks, vegetation clearance and reinstatement of grass.</p> <p>2.6 Installation of street furniture including wooden bollards &amp; warning signs.</p> <p>2.7 Installation of path network directional and waymarking posts and signs.</p> <p>2.8 Removal and disposal of redundant stockproof fencing</p> <p>2.9 Installation of new stockproof fencing, access gates (vehicular, agricultural &amp; pedestrian)</p>						<p>Dwg 100a Dwg 110a Dwg 310</p> <p>Dwg 100 Dwg 101 Dwg 102 Dwg 103 Dwg 104 Dwg 105 Dwg 106 Dwg 107 Dwg 108 Dwg 109 Dwgs 300-308</p>	
No.	Activity	Possible Effect of Hazard	Severity	Prob'ty	Asses'd Risk	Precautions/Remedial Actions (PC = Principal Contractor)	Residual Risk
1	Working adjacent to public roads, vehicle movements on public roads/footpaths.	Collisions with other vehicles, members of the public	H	M	H	Traffic management & clear signage. PC must ensure that work is carried out as per ACOP "Safety at Streetworks & Roadworks". All site operatives must properly wear clean Hi-Vi clothing. Roadway must be kept clean of debris. All equipment & plant must be stored safely.	M
2	Excavations in vicinity of live services	Risk of Injury or damage to services	H	M	H	All statutory service information to be collected before start of work. Area to be surveyed & services located by hand prior to machine excavation. PC to undertake risk assessment & provide relevant method statements when working within areas of known services. Toolbox talks required.	M
3	Excavation Work	Buried Services, collapse of sides, contamination, access & egress, working in wet ground conditions, falls of plant material & equipment, asphyxiation	M	M	M	Effective barriers must be erected in way that it keeps personnel & plant at a safe distance from excavation edge. PC must ensure the protection of any personnel who are to work in the excavation and the structural integrity of all adjacent structures must be preserved.	L
4	Cutting works such as concrete, fence panels, fence posts and paving blocks.	Noise, dust, vibration, manual handling, fuels, electricity & abrasive wheels	H	H	H	PC must ensure that if noise cannot be avoided, then all personnel exposed to the noise must wear hearing protection. PC must ensure that dust is suppressed at source & the proper respiratory protection is used by all personnel exposed to the dust. To reduce vibration & to ensure the electrical integrity of	M



						powered tools the PC must ensure that tools are well maintained & electrically safe. PC must ensure that proper manual handling procedures are followed for operatives using powered hand tools and if powered tools require re-fuelling, then the PC must ensure that a safe procedure is followed. PC must ensure that abrasive wheels must only be fitted by those who are trained and competent to use them.	
5	Cutting Timber Products	Noise, dust, vibration, manual handling, fuels, electricity & abrasive wheels	H	H	H	The PC must act as detailed in 4 above and must ensure the restriction of chainsaws to operatives who have received proper training and have a recognised certificate in their use	M
6	Removal of Vegetation	Uncontrolled felling of trees and exposure to hazardous plant life: stings, rashes, allergic reactions, trips, falls and crushing or injury due to falling branches/trees. Other hazardous material may include illegally dumped rubbish, hypodermic needles etc.	H	H	H	PC to provide method statements and all work to be planned and controlled by a competent subcontractor following approved codes of practice.	M
7	Manual handling of large & heavy materials	Risk of Injury	M	M	M	PC to provide method statements to minimise manual handling. Adequate lifting facilities to be provided.	L
8	Using Electrical Equipment on Site	Electricity	H	M	H	PC must ensure that all portable electrical tools & equipment used on site are 110V C.T.E. PC to provide training to all personal using electrical equipment. Allow only the use of regular checked equipment.	L
9	Emergencies	Risk of inadequate provisions in the event of an emergency	H	M	H	Emergency plans to be in place with out of hours contact phone numbers & emergency service numbers. Unrestricted access to be always available to emergency vehicles. All personnel to be informed of emergency procedures.	L
10	Access – During Site Works	Risk of collision with other vehicles or with pedestrians	H	M	H	Traffic Management Plan & clear signage. Clear separation of public & works construction area	M
11	Unauthorised access by members of public	Risk of injury to people not authorised to be on site	H	M	H	Pedestrian diversion signage, appropriate safety barriers for all pedestrian pathways. Use of security barriers & locks	L
12	Health & Welfare	Risk of illness or accident	M	L	M	PC to provide appropriate facilities for site personnel.	L
13	Construction – General	Risk of injury or damage	M	M	M	Design to ensure all construction activities can be carried out safely. PC to carry out risk assessment, provide method statements & ensure all plant & equipment is operated by trained/competent personnel.	L
14	Working in adverse weather conditions	UV Radiation, High Temps, High Winds, Dust, Mud, Low Temperatures. Tidal water	M	M	M	PC must ensure site personnel are aware of the results of over exposure to strong sunlight. PC must ensure traffic routes are kept passable during periods of heavy rain when the site conditions can become muddy. PC must ensure that working at height & lifting of materials is risk-assessed during periods of high wind.	L



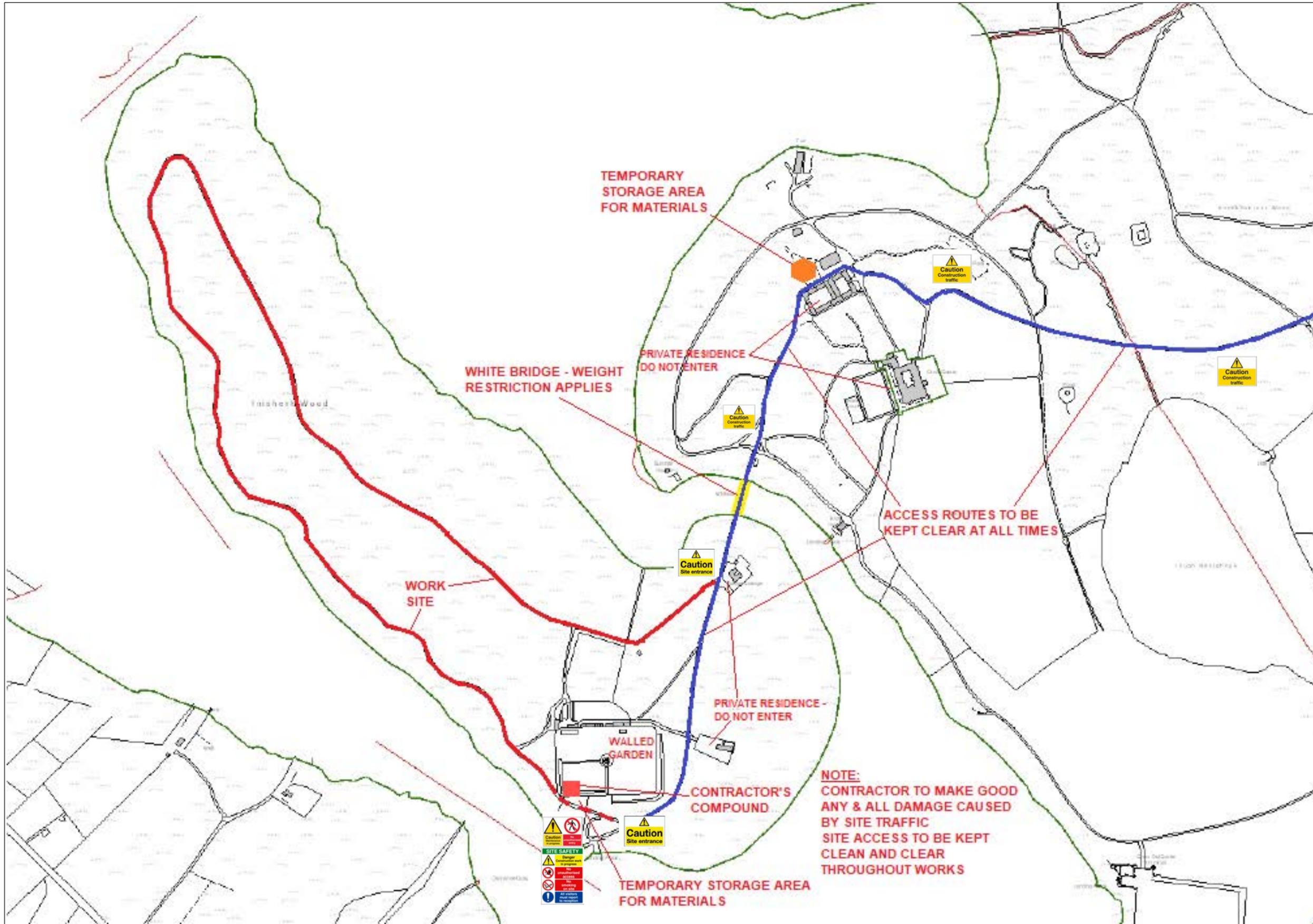
						During freezing conditions PC must ensure care is taken by all site personnel driving on untreated roads, in using any ladders etc.		
15	Working with Concrete: Construction of concrete surfacing & foundations etc	Noise, dust, vibration, manual handling, fuels, electricity & abrasive wheels	H	M	H	PC must ensure that if noise cannot be avoided then all personnel exposed to the noise must wear hearing protection. PC must ensure that dust is suppressed at source & the proper respiratory protection is used by all personnel exposed to the dust. PC must ensure the electrical integrity of powered tools and reduce vibration, ensuring that the tools are well maintained & electrically safe. PC must ensure that proper manual handling procedures are followed when operatives are using powered hand tools. If powered tools require refuelling, then PC must ensure that a safe procedure is followed. PC must ensure that abrasive wheels must only be fitted by those who are trained & competent to do so.	L	
16	Earthworks including the creation of slopes.	Risk of Injury or Damage	M	M	M	PC must ensure that where earthworks are taking place this is suitably controlled & that banksmen are in place. PC shall ensure adequate routes in/out of the site to areas of earth working are well defined and suitably signed to ensure plant movements do not cross wherever possible. When forming slopes, the PC shall take care & precautions as necessary to ensure material cannot fall or slump onto adjacent land or property. Maximum grade of any slope in a temporary condition shall be 1 in 3.	L	
17	Working near water	Risk of Illness or Injury. Risk to Life Contaminating Watercourse.	H	H	H	PC to provide method statements to mitigate the risk of working near water. PC to provide Weil's Disease card. Appropriate barriers to be constructed to stop access to water courses. When working near/over a watercourse all equipment to be on spill pads to reduce the risk of contaminating the watercourse. All equipment must be refuelled away from the watercourse where possible and ensure that a safe procedure is followed. Spill kits shall be provided on site with all operatives informed in how to use them.	M	
18	Working near Overhead Services	Risk to Life. Damage to Services	H	H	H	PC to provide appropriate method statements and toolbox talks. PC to provide appropriately sized goal post barriers in areas where over-head cables cross the site works area.	M	
19	Hazardous Materials	Risk of injury & illness	M	L	M	PC to comply with COSHH Regulations 1994. Appropriate PPE to be provided.	L	
Assessment by		Date	Reviewed by	Date	Project No.	Revisions;	Notes;	Sheet No.
M. Conway		01/11/20211			10031369			3 of 3



## Appendix C: CDM Development Plan



# Phase 1 CDM Site Works Plan

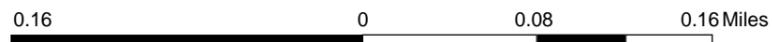


### Legend

- NT Ownership (NI)
- NT Leasehold (NI)



Scale: 1:5,000



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### Notes

This map was automatically generated using Geocortex Essentials.