

# **MEATH LOCAL AUTHORITIES**

Construction Environmental Management Plan (CEMP)
for Stamullen Burial Ground, Playground
and Woodland Walk Development at
Gormanston, Co. Meath



Site Bounded in Red

# **Contents**

#### 1. Introduction

- 1.1 Project Team
- 1.2 Programme & Phasing
- 1.3 Working Hours
- 1.4 Pre-start Survey
- 1.5 Construction Site Compounds, Parking, Accommodation, Welfare & Storage

# 2. Project Overview

- 2.1 Scope of the Plan
- 2.2 Site Location
- 2.3 Neighbours
- 2.4 Description of Development

## 3. Overall Approach to Construction Management

- 3.1 Statutory Requirements
- 3.2 Standards
- 3.3 Health & Safety Guidance
- 3.4 Site Set Up
- 3.5 Temporary Electrics
- 3.6 Health & Safety Information
- 3.7 Method Statements
- 3.8 Control of Scaffolding
- 3.9 Site Access
- 3.10 Safe Passage for Pedestrians
- 3.11 Provision for Disabled People
- 3.12 Site Transport

#### 4. Specific Environmental Mitigation Measures

- 4.1 General Approach
- 4.2 Security
- 4.3 Waste Management
- 4.4 Water Pollution
- 4.5 Air Quality & Dust Emission
- 4.6 Soil and Stone By-products
- 4.7 Noise
- 4.8 Noise Mitigation Measures
- 4.9 Vibrations
- 4.10 Site Clearance
- 4.11 Site Activities
- 4.12 Emergency Procedures
- 4.13 Site Liaison Arrangements & Promotion
- 4.14 Consideration of Residents
- 4.15 Complaints Procedure (Local Residents)

#### 5. Traffic Management

#### **5.1 Transport Movement**

- A. Measures to avoid affecting Peak Traffic
- B. Number & Frequency of Deliveries
- C. Measures to Encourage Workers to Travel Sustainably
- D. Mechanised Road Sweeping
- E. Management Plan for Pedestrians
- F. Community Engagement Strategy
- 5.2 Traffic Routes from M1 to Site
- 5.3 Deliveries from All Directions
- 5.4 Site Access
- 5.5 Pedestrians
- 5.6 Travel Plan & Car Parking
- 5.7 Parking
- 5.8 Public transport
- 5.9 Bicycles
- 5.10 Construction Traffic
- 5.11 Safe Loading/Unloading Areas
- 5.12 Supply Chain Management
- 5.13 Local Suppliers

#### 6. Completed Extract from Good Practice Guide for Construction

#### 7. Appendices (Separate Documents)

- 7.1 Construction Environmental Management Plan (CEMP) incl. Dust & Emissions
- 7.2 Traffic Management Plan(To be completed by Main Construction Contractor)
- 7.3 Waste Management Plan (To be completed by Main Construction Contractor)

#### 1) Introduction

This Construction Management Plan (CMP) has been prepared to address the procedures, sequencing and Construction methodology anticipated by the Project Teamengaged in the planning, liaison, and Construction of the proposed Stamullen burial ground, playground and Woodland Walk development at Gormanston, Co. Meath. The plan outlines the approach to the construction, environmental and traffic management measures to be adopted during Construction.

It is also designed to be a live document which will eventually address how any planning conditions imposed on the project will be managed or discharged by the Construction team.

The CMP incorporates 3 main elements:

- 1. Overall approach to the development.
- 2. Environmental management considerations.
- 3. Traffic management considerations

#### 1.1 Project Team

Organisations		
Client	Meath County Council	
Engineering	Meath County Council	
Ecological Consultants	Noreen McLoughlin	
Hydrological Consultants	Dr. Robert Meehan	
Flooding Consultant	JB Barry Consulting Engineers	
SUDs /GSDS Compliance	JB Barry Consulting Engineers	
Quantity Surveyor	To be determined	
Contractor	To be determined	

#### 1.2 Programme & Phasing

The project will be completed in 1 phase. The commencement date will be outlined following finalisation of the Part 8 Planning Process and will be agreed with the main contractor.

#### 1.3 Working Hours

Except where otherwise agreed with Meath County Council (MCC), working hours will be: 08:00 – 19:00 Monday to Friday and 08:00 – 14:00 Saturday Closed on Sundays & Bank Holidays.

#### 1.4 Pre-Start Survey

A pre-Start Survey of the works will be carried out prior to the works commencing. This will consist of a photographic aided report on the existing environment including; existing underground & over ground services, boundaries, footpaths, roads, access points, fence lines, kerb lines, street furniture and road signs. The findings of the survey will be documented and stored by the Contractor

#### 1.5 Construction Site Compounds, Parking, Accommodation, Welfare & Storage

The Main project offices shall be established within the site area including welfare facilities for operatives on the site. These facilities may initially be mobile to facilitate the operation & movement of plant.



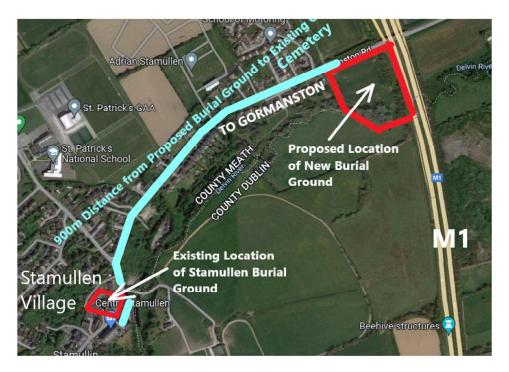
#### 2) Project Overview

#### 2.1 Scope of Work

The proposed development will consist of:

- A total of 1,322 no. single Burial Plots, Garden of Remembrance for 90 no. Urn Plots and Columbarium Walls for the interment of Urns;
- A Playground with an area of 1,650 m.sq with a 2.1m high natural stone boundary wall;
- Internal Access Roads and footpaths to accommodate vehicular and pedestrian access with low level Public lighting and walking access isles;
- Utilisation of the existing agricultural entrance from the Local Road L-1617-8 (Gormanston
   Stamullen) with provision of a new entrance layout to include natural stone piers, gates
  and railings;
- Carparking within the development for a total of 92 car-parking spaces with Public Lighting;
- A Caretaker's office/canteen and toilet facilities;
- Importation of 19,500 tonnes of Soil and Stone by-product to raise the existing ground levels to construct the tiered cemetery; to ensure adequate separation distance from Burials to groundwater; for general landscaping; landscaping burial plots; and the construction of the attenuation system including an attenuation pond;
- Woodland walk comprising of natural walkways, new tree planting with access from the Burial Ground with potential access to the Devlin River Linear walk from an adjoining development;
- All associated works including boundary fencing, landscaping, surface water drainage and attenuation system, attenuation pond, ducting, piping, and ancillary works.

#### 2.2 Site Location



#### 2.2.1 Neighbours

The boundaries of the site are formed as follows:

- To the North –5.5m wide local Road with footpath and public lighting
- To the East M1 Motorway
- To the West Single dwelling
- To the South

   River Delvin and Agricultural lands.

The Contractor will establish contact with Meath County Council, Ashbourne Municipal District Engineer & the various residents, landowners and other local representatives to raise awareness of the project.

The site Construction Manager will deal with any queries and provide immediate responseto any issues raised. It is proposed to hold periodic meetings on site to explain the works anticipated during the Construction period and how these will impact upon the neighbours. Special consideration will be given to accommodate where possible any special requirements arising from activities within the local area.

The site will be secured by a steel Palisade Gate and Harris fence hoarding which will be adjusted as necessary. The hoarding will be maintained to a high standard throughout the progress of the project. Measures will be introduced to control work at heights by task specific method statements and proprietary barriers will be erected to protect adjacent properties and pedestrians during construction of the Burial Ground and footpath along the public road.

Pedestrians & cyclists will be catered for via the traffic Management Plan, which will be operated & amended to suit the circumstances the duration of this project.

Truck Movements will take place on Public Road, in consultation with MCC and the localinterest groups. Reversing manoeuvres will be minimized, but where required they will be 'Banked' by trained personnel.

Road opening to install utilities will be undertaken at the earliest opportunity. A separate trafficmanagement plan will accompany the licence application. This exercise will be coordinated with the Gardai, the Utilities and the Council to minimize disruption.

#### 2.3 Description of Development

- a) Groundworks
- b) Substructures
- c) Superstructures (Concrete + Timber)
- d) Temporary Works (Scaffolding)
- e) Roofs
- f) Mechanical, Electrical & Plumbing (MEP)
- g) Finishes
- h) Fittings
- i) Materials Handing
- j) Stockpiles
- k) Waste Disposal
- I) Associated Development
- m) Other External Works

#### 3) Overall Approach to Construction Management

#### 3.1 Statutory Requirements

The relevant statutory requirements are listed below:

- The Building Regulations
- The Planning Conditions BCAR requirements
- The Protection of the Environment Act 2003
- Air Quality Standards Regulations 2011
- Waste Management Act 1996 &
  - AssociatedRegulations
- Traffic Signs Manual &

**Temporary Traffic Management** 

Requirements (August 2019)

#### 3.2 Standards

The works shall be carried out, as far as is reasonably practicable, in compliance with thefollowing standards:

- British Standard BS:5228 'Noise Control on Demolition & Construction and OpenSites'
- The guidance contained in the BRE publication 'BRE Pollution Control

# Construction Environmental Management Plan – Stamullen Burial Ground & Playground, Co. Meath

Guide – Controlling particles, vapour and noise pollution from Demolition & Construction

#### sites'

- -Part 1 'Pre project planning and effective management'
- -Part 2 'Site preparation, demolition, earthworks and landscaping'
- -Part 3 'Haulage routes, vehicles and plant'
- -Part 4 'Materials handling, storage, stockpiles, spillage and disposal'
- -Part 5 'Fabrication processes and internal and external finishes'

The Contractor and All Sub-Contractors will have a working knowledge of all relevant Acts, Regulations & Standards (some of which are listed below) and so be able to promote, stimulate and encourage a high standard of health and safety during their work:

Safety & Health at Work Act 2005
Construction Regulations 2013

The lists are not exhaustive.

#### 3.3 Health and Safety Guidance

□ General Application Regulations 2007- 2016
 BS 6187:2011 CoP Full & Partial Demolition

Specific health and safety issues relating to the site are dealt with in the Construction Health, Safety & Environment Plan which shall be maintained throughout the project from commencement and shall be updated as required.

A Health and Safety File shall be prepared and submitted upon the completion of the Construction phase in accordance with the Construction Regulations 2013.

#### 3.4 Site Set Up (Enclosure of working areas, security, compounds, storage, parking)

Site set up will initially be mobile within the site boundary to facilitate the deployment of plant safely. Temporary services connections, as they become available, will be maintained to the site office accommodation and welfare facilities, including:

Electricity supply
Water supply
Drainage
Voice and data communication

The Contractor will provide and maintain welfare facilities (including toilet facilities along with hot and cold water, soap/hand cleanser and towels, drinking water, rest facilities to change, store and dry clothing) in accordance with legislation during normal site hours for the use of its contractors.

The Contractor shall ensure that these facilities are cleaned on a regular basis and that regular checks are undertaken to ensure they are kept in a clean and tidy condition.

#### 3.5 Temporary Electrics (incl. Lighting)

The design, installation and maintenance of the temporary electrical system, including lighting, will be the responsibility of the Contractor to control and monitor compliance with legal and non-statutory regulations etc.

A competent and accredited temporary electric subcontractor will be appointed to install and maintain the system, in accordance with ETCI standards and HSE Guidance HSG141 Electrical Safety on Construction Sites.

Temporary supplies from generator installations shall be minimised and subject to the same requirements. Where generators are temporarily utilised, the Contractors will be required to locate them away from residential sites and to provide noise barriers where appropriate.

#### 3.6 Health and Safety Information

All Sub-Contractors shall submit the following to The Main Contractor prior to work commencement:

- A copy of the Company's job-specific safety statement
- The name and CV of the Company's Safety Officers and details of any other duties he/she has if not full-time
- ☐ A Risk Assessment & Method Statement (RAMS) which identifies the principle hazards likely to be encountered, assesses the risk from these hazards, and details the means by which they are avoided/minimised and/or controlled.
- ☐ Statistics for the last three years
- □ Disclosure of health, safety and environmental enforcement action (notices, prosecutions etc.) taken against the sub-contractor in the previous three years,
- ☐ A clear specification of resources and timescale to carry out the work safely and in accordance with the Construction HS&E Plan.

#### 3.7 Method Statements

All Sub-Contractors shall submit to The Main Contractor a method statement describing proposals to carry out the works. Once appointed the Sub-Contractor shall provide a full statement supported by any drawings, temporary works and calculations where required by The Main Contractor. The Contractor shall undertake a safety audit of the proposed method which shall be reviewed regularly and/or as necessary.

#### 3.8 Control of Scaffolding

The Main Contractor shall ensure that appropriate material, i.e.netting, is provided to scaffolds to minimise dust and to prevent falling objects where works are likely to affect adjoining occupiers or members of the public.

#### 3.9 Site Access

This will be controlled in accordance with the Traffic Management Plan.

#### 3.10 Safe Passage for Pedestrians

Where existing roads are affected by the works, a safe passage will be maintained for pedestrians, or if this is not possible, a safe alternative means of passage around the works will be provided in accordance with the 'Traffic Signs Manual' and Temporary Traffic Management requirements (August 2019). A safe passage will also be maintained for all vehicles entering and leaving the works. The Contractor will provide all necessary traffic signs, cones, barriers and lighting.

#### 3.11 Provision for Disabled People

In particular the Contractor will make all necessary provision to ensure that the needs of disabled people are met in the vicinity of the works by giving clear visual warning to partially sighted pedestrians in accordance with the 'Traffic Signs Manual' and Temporary Traffic Management requirements (August 2019).

All openings or obstructions on the road will be barricaded off with a continuous rail which is strong enough to offer the necessary resistance should a blind person walk into it. The rail will be one metre above the ground level. There will also be a tapping rail of minimum depth150mm with a lower edge at ground level or up to a maximum height of 200mm above the ground.

Road Opening Permit: No works will interfere with existing public carriageways without the Sub- Contractor supplying the Main Contractor with details of the named supervisor for the works, detailed Method Statements and all appropriate authorisation and approvals from MCC prior to work commencement.

#### 3.12 Site Transport

All activities involving Workplace Transport and slewing are regarded as high risk activities and The Contractor shall ensure that Sub-Contractors provide suitable and sufficient Risk Assessments and Method Statements indicating the precautions that may be taken.

The Contractor will provide up to date site transport plans indicating safe designated pedestrian routes and areas and designated reversing areas, details of pedestrian and vehicle separation at site entrance, and traffic management requirements for Contractors including use of competent and trained Personnel, use of high visibility jackets and other operational control measures as appropriate.

#### 4) Specific Environmental Impact and Mitigation Measures

#### 4.1 General Approach

The works will be carried out, as far as is reasonably practicable, in compliance with the Relevant Standards and Best Practice

#### 4.2 Security

The site will be bounded by a 2.0 metre high Harris fence and 2.4m high Palisade Gate. This hoarding will allow space for plant access, accommodation. During workinghours, when open the vehicle entrance will be manned. Access through the pedestrian gate will be restricted to staff, operatives & visitors on site specific business.

#### 4.3 Waste Management

The proper management and handling of waste on site is essential to ensure that pollution and increased levels of contamination are minimised. Effective management of waste on sitewill consist of the following measures;

- Waste segregation.
- Skip containers covered.
- Non dumping/littering policy on site.
- Regular clean up of the site.
- Careful handling and transportation to avoid damage to materials.
- Efficient logistics/ordering.

#### 4.3.1 WASTE ASSESSMENT, PREVENTION / MINIMISATION

A site review shall be carried out prior to commencement of works in order to assess if any of the existing building materials have potential for re-use, to maximise the recovery of material from construction works and assess methods to divert material away from landfill. Waste prevention and minimisation will be achieved through the implementation of several guiding principles and in accordance with the waste management hierarchy, namely:

☐ Maximising the reuse of materials where possible.
□ Segregation of waste materials into reusable, recyclable and non-recyclable materials.
□ Reusing and recycling materials during works when practicable.
□ Recycling materials through appropriately permitted / licensed contractors and facilities.
□ Disposing of non-recyclable wastes to licensed and permitted facilities.
$\hfill \Box$ Diverting materials away from landfill and maximising recovery rates from the construction
works

#### **4.3.2 ONSITE WASTE MANAGEMENT**

#### **NON-HAZARDOUS WASTE**

#### 4.3.2.1 Mixed C&D Material

Mixed C&D material generated during the project shall be segregated on site where possible. Residual material shall be placed in a designated waste receptacle and removed off site for further segregation and re-use, recycling or recovery. The receptacles shall be removed by the permitted contractor and segregated off site at a designated facility. A waste report will be generated by the waste contractor at the end of the works to detail the percentage of waste recycled and recovered from the skips.

#### 4.3.2.2 Clean Concrete

Clean concrete waste originating from construction shall be broken up on site and stored in a designated area pending removal off site by the Construction Contractor to a permitted facility. Waste dockets shall be retained for all material taken off site and receipts obtained from the Facility to verify compliance. Mixed Metals Mixed metals will be segregated and collated in a designated skip/area within the site. The skip will be removed off site for recycling by a permitted contractor to an authorised facility. Mixed Timber The timber would not be suitable for re-use, however it will be collated in a designated skip/area within the site and removed off site for recycling/chipping by a permitted contractor to a licensed facility.

#### 4.3.2.3 SOIL & STONE

The project is being carried out on a green field site which is currently being used for agricultural purpose. All soil and stone excavated during construction works will be used on site as fill material for engineering and landscaping purposes. Should this change, the main construction contractor will be appointed to manage the disposal/ recovery of the soil and stone (subsoil and topsoil). The Site Engineer will co-ordinate the excavation of soil and stone. A waste log, docket and receipt system will be maintained for all soil and stone removed off site. A detailed report will be provided by Main construction contractor on completion of works.

#### **4.3.2.4 HAZARDOUS WASTE**

There are no hazardous wastes to be generate from the project.

#### 4.3.3 WASTE STREAMS PRODUCED ONSITE

Wastes anticipated to be generated during the works are listed in Table 5.1– Waste Management.

Table 5.1 also details the waste management technique that will be applied, the contractor who will carry the material and the facility where it will be disposed, recovered, recycled or re-used.

A waste management summary will be provided on completion of the works which will include the exact volumes of materials removed off site and the licenced/permitted destinations where they were accepted.

Waste Type & estimated volumes	EWC Code	Waste management Technique	Waste Contractor	Facility / Landfill
Mixed MW (RORO Skips)	20 03 07	Mixed Construction material from the works shall be placed in the designated skip for removal and segregation off site. Waste reports will be generated.	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Concrete rubble	17 01 01	Waste Concrete shall be segregated on site and removed off site and disposed by a permitted contractor at a permitted/licensed facility	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Soil and Stone	17 05 04	To be reused on site for landscaping and engineering purposes	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Macadam Planings	17 03 02	The macadam will be planed out and disposed of under an Article 27 or segregated on site and removed off site and disposed by a permitted contractor at a permitted/licensed facility	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development
Mixed metals (RORO Skips)	17 04 07	Collated in a designated skip and taken by a permitted contractor to a permitted / licensed facility.	To be confirmed by Main Contractor prior to commencement of development	To be confirmed by Main Contractor prior to commencement of development

## **4.3.4 WASTE TRANSFER OFF SITE**

All waste materials removed from the works shall be moved in accordance with current waste management legal and regulatory requirements. Skips removed from the site will be covered to prevent windblown litter, fallen debris and to minimise dust.

Documented proof of all waste movements (waste docket), receipt and final recovery or disposal of the material will be obtained from the waste contractor(s) to facilitate waste reporting to the Client and to compile the Safety file on completion of works. Copies of this information shall be available during the works from the Environmental Advisor or Contracts Manager.

The waste management records will be verified and validated by the Environmental Advisor. They will be retained on site for the duration of the works and thereafter returned to Meath County Council as the Client for archival and retention.

All hazardous waste moved off site was accompanied by a Waste Transfer Form as per current waste management legal and regulatory requirements.

Waste management practices and the associated records will be included within the scope of all environmental inspections carried out. Actions identified will be communicated to the relevant persons and investigated, addressed and closed out in a timely manner.

#### **4.3.5 LITTER**

The Contractor shall endeavour to ensure that all litter is disposed of in an environmentally responsible manner, and that it is not released to the environment. In order to fulfil this obligation, the following control measures will be put in place;

- A high standard of housekeeping will be maintained to ensure that materials are not left where they can be blown away to become litter.
- Rubbish & litter will be removed at frequent intervals and the works site will kept clean and tidy.
- On-going housekeeping, waste management and litter awareness toolbox talks will be provided at scheduled intervals throughout the works.

#### 4.3.6 TRAINING

All persons working for or on behalf of Meath County Council on this project will be made aware of the waste management requirements, general environmental controls and mitigation measures at induction and thereafter through the use of toolbox talks and communication sessions.

All persons working for or on behalf of Meath County Council on this project will be instructed in relation to the requirements of this Construction Waste Management Plan and informed of their responsibilities in relation to its provisions.

Where source segregation and material reuse techniques are applied, the relevant persons will be given instruction on how to comply with the waste management requirements.

Training will be provided to the Contracts Manager, Site Manager and Site Engineer in relation to the requirements of this Construction Waste Management Plan, environmental management legal and regulatory requirements as well as the waste and environmental management control and mitigation measures prior to commencement of works.

Additional waste and environmental management awareness training will be provided thereafter on a scheduled basis or as required in the form of toolbox talks and environmental communication sessions.

Sub-Contractors carrying out works will be subject to the same level of waste and environmental management awareness training as the main construction contractor.

#### 4.4 AUDITING & REPORTING

#### 4.4.1 RECORD KEEPING

The construction contractor will retain all waste records and associated waste documentation for all material taken off site. In accordance with environmental legal and regulatory requirements the following waste records will be retained:

- Copy of Waste Collection Permits
- Copy of the Facility Permit / Licence
- Waste Dockets for all waste consignments (specific to the contractor removing the material)
- Waste Transfer Form for all consignments of Hazardous waste

Waste Collection Permits and Waste facility Permit / Licence shall be verified and validated by the Environmental Advisor. The waste management documentation shall be retained for the duration of the works at the site and afterwards returned to the Client Meath county council for storage and archive. An electronic waste log will be documented and maintained up to date for the duration of the works. An overall Waste Management Report will be made available on completion of the works that will outline the exact volumes of waste materials removed from the works and the end point destinations in terms of recovery, recycling/re-use or disposal.

#### 4.4.2 WASTE INSPECTIONS & AUDITING

The Environmental Advisor shall ensure compliance with this plan during scheduled inspections. The inspections will involve a systematic study of all waste management and environmental management practices and records. An inspection report will be documented following all inspections to detail current waste management and environmental performance.

Areas for improvement will be documented as corrective actions and tracked in order to monitor their effectiveness. All actions identified shall be investigated, addressed and closed out in a timely manner.

#### 4.4.3 REVIEW AND UPDATE OF THE PLAN

This Construction Waste Management Plan will be updated on a scheduled basis during the works. Waste management measures detailed within this plan, will be reviewed during inspections, as the waste management of the works change or as legislative / Client requirements change. Any changes made will be communicated accordingly though toolbox talks and communication sessions. An updated copy of the Plan will be submitted to the Client for submission to and agreement with the Local Authority as per Planning requirements.

#### 4.4.4 COMMUNICATIONS WITH CLIENT & REGULATORY BODIES

The Client will be kept up to date in relation to waste management progress on the works. The Environmental Advisor or Contracts Manager shall be the main points of contact for waste management and environmental communications. As per Planning Permission conditions, the developer will submit an overall C&D WMP for the project, incorporating the information contained in the construction contractor C&D WMP and any updates shall be submitted by the Construction Contractor to Meath Co. Co. for their approval prior to commencement of works.

#### 4.5 Water Pollution

The site is in close proximity to the River Delvin but there will be no discharge construction water to ditches or streams and it is of paramount importance that this waterway is not affected during the Construction works.

All works undertaken at the site shall be managed in accordance with the Inland Fisheries document 'Requirements for the Protection of fisheries Habitat during Construction and Development Works at River Sites'. The following mitigation measures are proposed to prevent the occurrence of any pollution incidents:

- Throughout all stages of the Construction phases of the project the contractorwill
  ensure that good housekeeping is maintained at all times and that all sitepersonnel
  are made aware of the importance of the associated aquatic environment and the
  requirement to avoid pollution of all types.
- Fuels, oils, greases and hydraulic fluids will be stored in bunded compounds well away from open excavations/drains. Refuelling of machinery, etc., will becarried out in bunded areas/with the use of plant nappies.
- Runoff from machine service and concrete mixing areas will not enter any watercourse or groundwater.
- Areas for the stockpiling of waste materials will be kept to a minimum size, well away from permeable ground.

#### 4.6 Soil and Stone By-products

It is intended to import 19,500 tonnes of topsoil (4000t) and subsoil (15,500T) by-product into the developed to be used for general landscaping, landscaping burial plots and the construction of the attenuation system including an attenuation pond. The soil is also necessary to increase the ground levels on site to ensure that there is adequate separation distances between burials and groundwater.

The soil and stone will be sourced from Meath County Council projects and local developments /construction projects. In accordance with SI No 126/2011 European Communities (Waste Directive) Regulations 2011, all soil and stone by-products used at the proposed development will be processed through and comply with the EPA article 27 by product notification process.

The soil and stone by-products shall only be delivered to the site using rigid lorries. It is estimated that approximately 1100 lorry loads of soil and stone by-product will be imported into the development. It is proposed to have a maximum number of 15 No lorry loads of soil and stone by-product delivered to the development per day

#### 4.7 Air Quality & Dust Emission

The control of noise, dust and fumes will be an important aspect on this contract due to the close proximity of local residents. In the main, The Contractor's standard procedures will be employed. The main actions have been briefly explained below:

There are three main types of plant that will generate noise.

- Fixed plant Generator sets, Mobile plant, Excavators & breakers
- pressure washers, Hand held plant

 Pokers, drills, nail guns, cut off saws, circular saws, screw guns,impact drivers, reciprocating saws, angle grinders,and CP9 breakers.

All plant will be supplied with written data for the noise level produced whenin operation. This is The Contractor company policy, as ear defenders may berequired, subject to a noise assessment. All plant will be inspected and registered on a weekly basis to ensure that it is in good condition, serviceableand is maintained and in a safe condition. Where possible, material will befactory cut or factory assembled in order to minimise the need for plant on site. Fixed plant will be enclosed or where required will have acoustic screens placed round them to minimise noise pollution. All fixed plant engines will incorporate vibration mounts. The other possible source of noise will be vehicular movements for deliveries to the project. This will be kept to a minimum by switching off engines whilst vehicles are being unloaded, having scheduled deliveries one at a time and inside site working hours.

All plant will be in good serviceable condition which will be checked regularly and registered accordingly by the site management team. Where possible or practicable, electrically powered plant will be used as this is generally quieter when operated. Wherever practical, noisy activities will be carried out in screened areas within the site or building and not on the boundaries. All staff and subcontractors will be made aware of noise issues through inductions and specific tool box talks.

Dust arising from the construction process will be controlled in accordance with The Contractor standard procedures. Mechanical equipment and plant will be positioned taking due consideration with regard to preventing the transfer of fumes to existing premises.

#### 4.8 Noise

The Contractor will ensure that all practical steps are taken in order to keep noise levels emanating from the site within acceptable levels. They will reduce the noise impacts on adjoining residents, occupiers and members of the public. Noise levels will be kept to a minimum by ensuring that all work is carried out within site working hours.

The Db rating for all tools and machinery selected for use will be checked and replaced with an alternative if deemed excessive. Contractors will be required

Construction Environmental Management Plan – Stamullen Burial Ground & Playground, Co. Meath

to wor	k in accordance with the following Codes of Practice:-
	The Code of practice for basic information and procedures for noise and vibration control, numbered BS5228: Part 1
	The Code of practice for noise and vibration control applicable to piling operations, numbered BS5228: Part 4
	al monitoring of the works shall be undertaken by the Health, Safety and
	nmental Officer. The report is issued to the contract manager and site manager for
	Site Health, Safety and Environmental Inspection Reports are then reviewed by gement and at site Health, Safety and Environmental meetings.
4.9 No	ise Mitigation Measures
	ontractor shall require all contractors using plant or equipment to comply with the ng requirements:
	All compressors shall be 'sound reduced' models fitted with properly lined and
	sealed acoustic covers which shall be kept closed whenever the machines are in
	use, and all ancillary pneumatic tools shall be fitted with mufflers or silencers of a type recommended by the manufacturers.
	Machines in intermittent use shall be shut down in the intervening periods between
	work, or where this is impractical, shall be throttled down to a minimum. Whilst in use engine covers shall be closed.
	Stationary plant will be sited away from any noise sensitive areas (ie residential
	accommodation) where practicable. Any plant known to emit noise strongly in one
	direction shall be oriented so that the noise is directed away from noise sensitive areas.
	No plant shall be left running outside normal working hours.
4.10	Vibrations
The Co	ontractor will adopt the following general approach in order to reduce and mitigate the
effects	of vibration by ensuring:
	Selection of plant and equipment on the basis of low levels of vibration characteristics.
	Maintenance of plant and equipment in order to maintain the design vibration profiles.
	Siting and screening of plant and equipment away from vibration sensitive areas.

# 4.11 Site Clearance

Waste will be kept to minimum and we will continuously seek opportunities for re-use and recycling where practical. A Construction Waste Management Plan shall be prepared and will be monitored and updated as required during the works.

#### 4.12 Site Activities

Water shall be used as dust suppressant where applicable during the site activities, and damping down will be undertaken as necessary to minimise dust transfer into neighbouring premises.

All stockpiles shall be enclosed or kept securely sheeted. Stockpiles of material for recycling should be damped down or otherwise suitably treated to prevent the emission of dust from the site.

Stockpiles shall be planned to minimise the effects of attrition and wind action. They shall be sited and shaped to minimise the potential for dust generation. The contractor shall sweep the site regularly and adequately to prevent any accumulation of dust from the site.

#### 4.13 Emergency Procedures

The Contractor will liaise with the Emergency Services and maintain emergency access routes for the entire duration of the works to the following locations:-

- To the site entrance
- To the buildings, as the works progress.
- The Contractor will liaise with the local Authority and Ashbourne Municipal District Engineer and the Emergency Services to maintain a Health and Safety Plan and Construction Environmental ManagementPlan for the duration of the Construction work.

#### 4.14 Site Liaison Arrangements and Promotion

All contractors and sub-contractors shall be required to attend meetings as required by the Contractors' site manager in order to ensure that adequate arrangements are in place for:

- Programme and day to day arrangements.
- Scheduling site deliveries, unloading of materials, temporary storagearrangements and handling of materials and waste within the site.
- Requirements relating to noise and vibration levels of plant and equipment. Requirements relating to control measures for minimising nuisance from dust, vapours and airborne pollution.
- Provision of information to the workforce relating to minimising the impact of theworks on adjoining properties.
- Temporary restrictions and prohibitions relating to work areas, barriers and safetysignage.
- Specific hazards and works that may affect other persons working on the site orvisitors to the site.

All Contractors will be required to attend a Pre-Contract meeting at which information relating to Health, Safety and Environmental issues will be provided to them. In addition, Contractors will be required to attend individual meetings at which specific issues will be discussed and the relevant control measures to achieve compliance with the standards set out in BS5228.

All Contractors shall be required to comply with the standards set out by The Main Contractor in this document, and where necessary The Main Contractor will provide Contractors with appropriate guidance on the application of these standards.

#### 4.15 Consideration of Residents

Prior to commencement of the Construction work, the Contractor shall, in line with their Consideration of Residents, provide information to residents, landowners and key local community services including:

- The nature, timing and phasing of the works.
- Changes to the local roads layout and temporary access arrangements. The likely impact of the works on adjoining residents and occupiers.
- The arrangements being made by the Contractor to mitigate the effects of thechanges and the works being undertaken.
- Arrangements for contacting the Contractor's 'Information Helpline'.

#### 4.16 Complaints Procedure (Local residents)

A clearly defined channel of communication will be set up and maintained, to facilitate queries or complaints from the public. It is proposed to liaise with local residents and action groups on a regular basis, to keep them informed of progress and procedures and to allay any environmental concerns they may have. The Contractor will make the relevant personnel available to them, on an appointment basis, to discuss any environmental concerns or issues relating to the site.

The following information will form part of the overall Construction Environmental Management System (CEMP) for the site and the information will be made available to all parties concerned by agreement with the Project Team:

- 4.16.1 Method Statements for activities on site
- 4.16.2 Disposal routes
- 4.16.3 Final Disposal Destinations
- 4.16.4 Environmental Monitoring (summary not raw data)
- 4.16.5 Site Monitoring (summary not raw data)
- 4.16.6 Complaints Register
- 4.16.7 Construction Environmental Management Plan

#### 5) Traffic Management

#### **5.1 Transport Movement**

#### A. Measures to avoid affecting Peak Traffic:

- The Contractor will avoid peak traffic by:
  - Monday to Friday Schedule deliveries to avoid congestion & queueing
  - Saturday Schedule deliveries to avoid congestion
- Discourage Staff & Workers from travelling to site by car
- Record Daily Compliance Checks in the Site Diary

#### B. Type Number & Frequency of Deliveries:

- All Truck Movements will be banked In & Out of the site
- Truck movements will vary throughout the project
- Groundworks, Excavation & Structure & Finishes Waste Trucks
- Concrete Works Ready mix Trucks
- Remainder of Structure, Façade, Services & Finishes Articulated & Rigid Body Trucks
- Maximum Truck Movements 4 per hour
- Average truck Movements 1-2 per hour

#### C. Mechanised Road Sweeping:

- The Contractor will have wheel cleaning facilities within the site boundary
- All Trucks will be 'Banked' In & Out of the Site
- The Contractor will contract with a local road sweeper to attend to site within 3
  hours of being contacted In the event of a spillage on the roads around the site

#### D. Management Plan for Pedestrians:

- Temporary Signage will be erected to advise people of the entrance/exit
- All truck movements In & Out of the site will be 'Banked' and temporary Safety Barriers will be used

#### E. Community Engagement Strategy:

- The Contractor community relations approach incorporates the following principles:
  - We are "guests within The "Loganstown Area";
  - We adopt a "no surprises" approach;
  - We are "always available"; and
  - We use "personal and targeted consultation".

- The Contractor team will initially use personal contacts and subsequently their communication mechanisms and systems to inform and advise Residents, Owners and Interest Groups about any Construction impacts.
- Emergency Site Contacts will be provided
- The treatment of Complaints is dealt with fully in Section 6 of the Construction Environment Plan (CEMP)

# 5.2 Traffic Routes from the Gormanston – Stamullen to the Site – Local Signage will be Erected in accordance with the Traffic Signs Manual & Temporary Traffic ManagementRequirements (August 2019)

All construction vehicles bringing materials and soil and stone by-product to the proposed development shall agree routes agreed in writing with Meath County Council.



#### 5.3 Deliveries from all directions

The routes described above have been evaluated and notes existing width restrictions to accommodate the size of the vehicles and to avoid were possible passing by or driving in the vicinity of schools located around of the Construction site.

All suppliers and contractors utilised on this project will be provided with verbal and written Communication's to make them aware of the planned routes and timing of deliveries to avoid peak traffic. This communication will include the highlighted route on a maps and timing for distribution to all drivers.

#### **5.4 Site Access**

The vehicular entrances to this site will be from the public road outside the proposed burial ground..

All vehicles will notify in advance of arrival the site manager of their estimated arrival time. In preparation the site manager will allocate a qualified banksman the responsibility of guiding the vehicles into the Construction site.

Small vehicles and plant will be preferred ,where possible, to facilitate deliveries from the Drogheda Urban area for the whole lifespan of this project. Parking of vehicles outside the

Construction Environmental Management Plan - Stamullen Burial Ground & Playground, Co. Meath

site will not be permitted.

For Construction vehicles, the gates will be controlled during working hours by a gateman and there will be operatives on duty throughout the day with breaks covered. It will be the responsibility of the gateman to ensure that the gates remain closed, when not in use, and are opened as soon as vehicles approach. It will also be the responsibility of vehicle banksman to ensure that the relevant paperwork is checked at the entrance and that the vehicles are parked correctly within the site delivery zone.

The gates will be locked every evening by the Contractor using chain wrap with padlock.

#### 5.5 Travel Plan & Car Parking

The site provides car parking for site staff, sub-contractors and visitors. We estimate that the number of personnel working on the site will peak at about 80 persons and average 35 persons for the duration of the project. All personnel are inducted prior to commencing work on the site. The site induction is the primary means of communicating the project travel plan and supporting information. The site induction is carried out by The Contractor.

#### 5.6 Parking:

Parking on local roads is prohibited. Anyone travelling to site by car will be encouraged to collect other site operatives on route. The Contractor site team is vigilant in ensuring that site personnel or visitors do not park illegally in the vicinity of the site. Should any sub-contractor decide to continually park illegally, The Contractor will not hesitate to remove that contractor from site.

#### **5.7 Public Transport:**

Alternatives to private car use have been considered by The Contractor site staff and efforts will be made to communicate the advantages of public transport to all site personnel.

#### 5.8 Bicycles:

Bike stands will be provided to encourage their use. The Contractor will provide parking for everyone who already cycles to work plus another 50 per cent. When the cycling facility reaches 70% capacity, it will be increased by 20%. This will be revised periodically.

#### **5.9** Construction Traffic

All vehicles will switch off engines when stationary. No idling of vehicles, as far as it is practicable, will be allowed. All loads entering and leaving site shall be covered. Any abnormal load/plant deliveries will be permitted and arranged with MCC & Gardai.

#### 5.10 Safe Loading/Unloading Areas

All safe loading and unloading will be performed on site or in the designated loading bay, which will have exclusion barriers & signage during use. Pedestrians will be held by a banksman until Construction vehicles have completely accessed or left the site and the gates are closed.

#### 5.11 Supply Chain Management

We recognise the impact this development can have on the local community and the environment so we encourage & challenge our supply chain to provide a better service. There are a number of key initiatives that we will promote with oursupply chain. Existing & potential suppliers will be made aware of these initiatives and their importance to the project will be detailed. Some of the suppliers, will have dealt with The Contractor on other projects, however we will be appointing subcontractors and suppliers who are new to The Contractor and effective communication will be required in this case.

#### 5.12 Local suppliers

As part of our Corporate Social Responsibility Agenda, we aim to promote local employment and stimulate the local economy. Where feasible we will source services, materials and equipment locally. This improves local health by reducing freight impacts such as fossil fuel usage, congestion, pollution, Construction and road casualties.

# 6) Completed Extract from Good Practice Guide for Construction

## 1. Locality

Identify those who may be affected by noise, including particularly sensitive locations (hospitals/schools) and determine ambient noise levels (noise maps or noise monitoring)

	Low	Medium	High	
Expected duration of work	xpected duration of work			
Less than 6 months				
6 months to 12 months				
Over 12 months			$\sqrt{}$	
Proximity of nearest sensitive recep	Proximity of nearest sensitive receptors			
Greater than 50 metres from site				
Between 25m and 50m				
Less than 25 metres			$\sqrt{}$	
Hospital or school within 100 metres				
Day time ambient noise levels				
High ambient noise levels (>65dB(A))				
Medium ambient noise levels (55-65dB(A)		$\sqrt{}$		
Low ambient noise levels (<55dB(A)				
Working Hours				
8am – 7pm Mon-Fri; 8am-2pm Sat				
Some extended evening or weekend work				
SUBTOTAL A	1	1	2	

# 1. Work information

# 1. General

All site staff shall be briefed on noise mitigation measures and the application of best practicable means to be employed to control noise.	Applicable
No materials shall be burned on site	Applicable
Adequate dust/debris screening should be in place at the site boundary to contain and minimise the amount of windblown dust. This must be maintained in good condition at all times.	Applicable
All consignments containing material with the potential to cause air pollution being transported by skips, lorries, trucks or tippers must be covered during transit on and off site.	Applicable
The site shall be dampened down as necessary to minimise windblown dust when necessary or during periods of dry weather.	Applicable
Dust suppression equipment must be used when point source emissions are likely.	Not necessary if above measures implemented

# 2. Plant

Ensure that each item of plant and equipment complies with the noise limits quoted in the relevant European Commission Directive 2000/14/EC	Applicable
Fit all plant and equipment with appropriate mufflers or silencers of the type recommended by the manufacturer	Applicable
Use all plant and equipment only for the tasks for which it has been designed	Applicable
Shut down all plant and equipment in intermittent use in the intervening periods between work or throttle down to a minimum	Applicable
Locate movable plant away from noise sensitive receptors	Applicable

# 3. Vehicle activity

Francis all calcials are accounted to a 21-2 and a 21-2	A 1: 1- 1-
Ensure all vehicle movements (on site) occur within	Applicable
normal working hours. (other than where extension of	
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work requiring such movements has been granted in	
cases of required road closures or for health and	
safety reasons)	

# 4. Monitoring

Appropriate dust suppression must be employed to	Applicable
prevent fugitive emissions affecting those occupying	
neighbouring properties or pathways	

# 5. Communication and Liaison

A many and provided in formation and the limit of the control of	Annlinghia
Arrange regular informal community liaison meetings at	Applicable
appropriate intervals including prior to commencement of	
the project.	

# **Extensions of Working Hours in exceptional circumstances**

Ensure at least 4 days notice is given to Meath County Council Planning Department when applying for extensions to normal working hours. Do not undertake out of hours work unless permission to do so has been granted.	Applicable – if required
Advise neighbours about requirement for and duration of any permitted works outside of normal working hours, and associated environmental mitigation measures being put in place during the course of the extended works, following receipt of approval from MCC	Applicable – if required
All complaints will be referred directly to the site liaison person and a reply must issue to the complaint within 3 hours of receipt of the complaint.	Applicable
A log of all complaints and a summary of how they were dealt with should be kept and be made available to MCC, as required	Applicable
Any breaches of permitted working hours or permitted extended working hours or developers or subcontractors not carrying out their requirements under this protocol may lead to enforcement action and may also result in the withdrawal of any extension of hours of works for a period that will be at the discretion of Meath County Council.	Applicable