



WORKS SPECIFICATIONS

260016: ROSCOMMON COUNTY COUNCIL –DEMOLITION OF APARTMENT BLOCK AND REMEDIAL WORKS TO RETAINING WALL



WORKS SPECIFICATIONS

DOCUMENT STATUS

Version	Purpose of document	Authored by	Reviewed by	Approved by	Review Date
00	First issue	B. Maloney	R.Mulligan		19 Jun-2026

APPROVAL FOR USE

	19-Jun-2026
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WORKS SPECIFICATIONS

TABLE OF CONTENTS

1	PRODUCT SPECIFICATION AND STANDARDS – GENERAL	1
1.1	QUALITY OF MATERIALS	1
1.2	PRIORITY OF STANDARDS	2
1.3	REFERENCES TO STANDARDS / REGULATIONS / LEGISLATIVE ENACTMENTS / CODES OF PRACTICE	2
1.4	TESTING OF MATERIALS	2
1.5	CERTIFICATION MARK.....	3
2	DEMOLITION	3
2.1	REMOVAL OF ASBESTOS AND OTHER HAZARDOUS MATERIALS.....	3
2.1.1	DISCOVERY.....	3
2.2	PRELIMINARY WORK	3
2.2.1	SERVICES	3
2.2.2	PLANS.....	4
2.2.3	DISCONNECTION OF SERVICES.....	4
2.2.4	SCHEDULES OF DILAPIDATIONS	4
2.3	PRECAUTIONARY MEASURES	4
2.3.1	PARTLY DEMOLISHED STRUCTURES.....	4
2.3.2	DANGEROUS OPENINGS	4
2.3.3	OVERLOADING	4
2.3.4	DUST	4
2.3.5	SUPPORT	5
2.3.6	PROTECT	5
2.3.7	SHORING PROPS, ETC.....	5
2.3.8	NOISE	5
2.3.9	MONITORING OF ADJACENT BUILDINGS	5
2.3.10	PROTECTION OF PROPERTY, PUBLIC, HOARDINGS	5
2.3.11	PRICING ON SITE	6
2.4	MATERIALS ARISING	6
2.4.1	CONTRACTORS PROPERTY	6
3	REMEDIAL WORKS TO EXISTING RETAINING WALL	6



WORKS SPECIFICATIONS

1 PRODUCT SPECIFICATION AND STANDARDS – GENERAL

1.1 QUALITY OF MATERIALS

The whole of the materials shall be the best of their respective kinds and shall in every case be subject to the approval of the Employer's Representative whose decision in all matters appertaining as to quality and suitability of materials and workmanship shall be final and binding. So far as is practicable, the origin of goods and materials used in the Works shall be Ireland, or one of the other member states of the European Union.

All materials shall be new (unless the Contract allows otherwise) and of the best quality and shall be transported, handled and stored in such a manner as to prevent deterioration, damage or contamination. As soon as possible after the contract is awarded, the Contractor shall inform the Employer's Representative of the names of the suppliers from whom they propose to obtain materials, but they shall not place orders for such materials without the approval of the Employer's Representative, which approval may be withheld until samples have been submitted and satisfactorily tested.

When proprietary products are specified similar products from other manufacturers may be accepted at the discretion of the Employer's Representative provided they are at least equal in quality to those specified. Samples shall be taken in accordance with the appropriate standard where applicable. The materials subsequently supplied shall conform to the quality of samples that have been approved by the Employer's Representative. Names of additional suppliers and sources may be submitted by the Contractor during the execution of the Contract, but no source of supply shall be changed without the Employer's Representative's approval.

All materials or substances shall comply with current applicable Irish Standards (IS or ISEN) and current applicable Irish Codes of Practice, and where there are no applicable Irish Standards or Codes of Practice, then the materials or substances shall comply with the current applicable British Standards (BS or BSEN) and Codes of Practice. No materials or substances shall be used which are known to be deleterious to health or safety or the durability of the Works in the particular circumstances in which these materials or substances are to be used.

Nothing stated in this Specification is to be construed as discriminating against products and materials manufactured in any of the Member States of the European Union.

Where items to a particular national standard of a Member State of the European Union are called for, this requirement shall be read as including items to a relevant international standard, or the relevant national standard of any Member State of the European Community that provides an adequate guarantee of safety and suitability.

Where items certified by the National Standards Authority of Ireland as complying with an Irish Standard are called for, the provisions of Circular Letter BM2/87 and Circular Letter BC 14/92 shall apply, i.e. the requirement shall be read as either certified by the National Standards Authority of Ireland as complying with the Irish Standard and shall bear the Irish Standard Mark, or shall be certified as complying with the relevant national standard of another Member State of the European Union, which provides an equivalent guarantee of safety and suitability – certification to be by the National Standards Authority of Ireland.

All products, unless there is a specific derogation, shall comply with the Construction Products Regulations, and shall bear the CE mark when delivered to site. The contractor shall prepare a spreadsheet to demonstrate compliance with the Construction Products Regulations for every product used on the project. This spreadsheet shall be kept up to date right through the project and copied to the Employers Representative at each progress meeting and when otherwise requested. The contractor shall not accept delivery of any products without first getting a copy of the certification showing that the product complies with the Construction Products Regulations, including the

WORKS SPECIFICATIONS

harmonised technical specifications, the specific requirements of this contract including works requirements, specifications and drawings, the minimum requirements in the National Annexes and Standard Recommendations, compliance with the Building Regulations in relation to use of proper materials that are fit the use for which they are intended and conditions of use, and the appropriate Declaration of Performance.

1.2 PRIORITY OF STANDARDS

The primary standard for all materials, insofar as the standard exists, shall be the European Standard (EN) as published by CEN, or as transposed in Ireland as ISEN. The following order of priority shall apply to the interpretation of standards:

- ISEN – if such a standard has been published for the material, this shall be the standard specification for the material. If no ISEN has been published for the material then;
- EN shall apply. If no EN has been published for the material then;
- IS shall apply. If no IS has been published for the material then;
- Any equivalent national standard of another Member State of the European Union shall apply, if no equivalent national standard is available, then particular requirements related to specific materials will be set out elsewhere in this specification.

Any reference in this specification to an ISEN standard shall be taken to include the Irish National Annex. Any reference in this specification to a national standard shall be taken to mean the equivalent ISEN standard, if the national standard has been subsequently replaced by an ISEN standard, or if the co-existence period has elapsed.

Note:- The references and details in this specification and the structural and civil engineering drawings supersede any other reference to structural and civil items included elsewhere in these tender documents.

1.3 REFERENCES TO STANDARDS / REGULATIONS / LEGISLATIVE ENACTMENTS / CODES OF PRACTICE

Where reference is made to Standards/Regulations/Legislative Enactments/Codes of Practice, the reference shall be deemed to apply to the issue, with amendments and addenda if any, current at the date of invitation to tender for the work.

1.4 TESTING OF MATERIALS

Particular attention of the Contractor is drawn to the requirement that all materials used (whether imported or re-used from materials recovered on the site) shall be tested and be accompanied by a certificate to be presented prior to their first use on the site, to demonstrate compliance with the recognized standards, including current Building Regulations (including Technical Guidance Documents recommendations) and other statutory requirements, NRA requirements, and other recognized construction industry body requirements.

Every item of material shall from time to time be subject to such tests as the Employer's Representative may prescribe and the materials tested shall conform in every detail with the requirements of the appropriate standard specification or with any other standard test which the Employer's Representative may lay down in the course of this Specification.

Testing of specific materials are required as indicated within this specification (see below).

WORKS SPECIFICATIONS

1.5 CERTIFICATION MARK

Wherever, in respect of any Irish Standard (either ISEN or IS), an NSAI Scheme of Supervision and Control is available, all materials required to comply with that Standard, or the containers of such materials, shall be marked with the Certification Trade Mark. This requirement shall not apply where the Employer's Representative is satisfied and confirms to the Contractor in writing that such materials are not readily available. In such a case or where an NSAI Quality Assurance Scheme is not available, but the materials are manufactured to the appropriate standard specification as certified by the appropriate certification body in the member state in which the product originates, the Contractor shall on request produce a certificate from the manufacturer stating that from each consignment a representative sample has been tested and has proved to be in accordance with all the requirements of the said specification.

Notwithstanding the furnishing of this certificate, nothing shall prejudice or override the inalienable right of the Employer's Representative to have independent tests carried out. For the purpose of carrying out such tests the Employer's Representative shall have full authority to have the samples taken, either at the manufacturer's factory or from consignments at the Works, and to submit the same to an approved Engineering Laboratory chosen by him for testing. Furthermore, the Employer's Representative shall have the right to reject any material as a result of such tests, notwithstanding that the manufacturer's certificates may have shown the materials to be satisfactory.

2 DEMOLITION

2.1 REMOVAL OF ASBESTOS AND OTHER HAZARDOUS MATERIALS

2.1.1 DISCOVERY

Give notice immediately of suspected asbestos containing materials discovered during demolition work. Avoid disturbing such materials.

Submit methods for safe removal.

2.2 PRELIMINARY WORK

2.2.1 SERVICES

Arrange with appropriate authority for the location and marking of the position of services affected by the demolition work.

The Contractor is responsible for ensuring that all services, electricity, gas, telecommunications, water, sewerage etc., are made safe prior to demolition.

Any damage to services that are required to be maintained are to be made good at the Contractors expense. Any services that are required on site by the Contractor during the works are to be included in the contract sum.

The contractor is responsible for the protection of overhead cables and is to provide suitable measures to ensure all necessary precautions are undertaken and should have them clearly marked to ensure immediate identification.



WORKS SPECIFICATIONS

2.2.2 PLANS

Examine all available plans of buildings or structures to be demolished.

2.2.3 DISCONNECTION OF SERVICES

Before starting demolition work arrange with the appropriate authority for the disconnection of services and removal of fittings and equipment. Pay all charges for disconnection of services.

2.2.4 SCHEDULES OF DILAPIDATIONS

The Contractor is to include in his price for the works the carrying out of a schedule of dilapidations on all adjoining structures adjacent to the works. This Schedule should be in the form of pictures and sketches including all defects noted in the properties. These schedules are to be provided to the Architect/Engineer and will require to be agreed between all parties including adjoining owners prior to demolition. After the works are complete the adjoining properties are to be inspected to ensure that no deterioration has taken place as a result of the demolition works. All costs associated with discussions/meetings with adjoining owners or their representatives are deemed to be included in the contract sum.

2.3 PRECAUTIONARY MEASURES

2.3.1 PARTLY DEMOLISHED STRUCTURES

N/A

2.3.2 DANGEROUS OPENINGS

Illuminate and protect as necessary.

2.3.3 OVERLOADING

Prevent debris from overloading any part of the structure. Ground upon which the building is located should not be overloaded. All machinery, used in the demolition and removal process to be kept within the existing 'hard standing' / street in front of the building.

2.3.4 DUST

Debris shall be watered where necessary to prevent the rising of dust. The demolition site is to be kept in a safe condition and materials shall not be stored in a manner likely to cause injury or nuisance to people on the site and adjoining owners. The Contractor shall make arrangements that debris, dirt etc is not allowed accumulate outside the site. All public roads and footpaths are to be kept clean.

The Contractor shall ensure that all public roads and pathways in the vicinity of the demolition works are at all times kept clear of waste and mud falling from vehicles connected with the Works, or soiling or staining of the public road as a result of the Works in any way.

The contractor shall provide for temporary blocking up of openings to adjoining parts of the existing structure, to ensure that dust / debris is not allowed to enter into the other parts of the building. Any localised 'spill' shall be immediately cleared and cleaned, to the satisfaction of the engineer.



WORKS SPECIFICATIONS

2.3.5 SUPPORT

Existing structure as necessary during cutting of new openings or replacement of structural parts. Do not remove supports until new work is strong enough to support the existing structure.

2.3.6 PROTECT

No parts of existing building which are to be retained. All adjoining properties to be adequately protected during the execution of the works.

2.3.7 SHORING PROPS, ETC.

It shall be for the Contractor to judge whether or not any necessary removal or demolition gives rise to the need for temporary shoring or props. The Contractor shall be deemed to exercise expert judgement in this matter. The engineer may be consulted but the decision to use or not use shoring or props rests with the Contractor who shall be solely liable for the proper design of any shoring or props, shall be liable for any damage resulting from failure to use temporary supports in any situation where common practice and prudent judgement indicate that they required to be used.

2.3.8 NOISE

The attention of the Contractor is drawn to the particular requirements of the Contract to minimise the noise created by the works. The contractor is required to take all necessary precautions to reduce noise and to not create unnecessary noise during the execution off the works.

2.3.9 MONITORING OF ADJACENT BUILDINGS

Monitoring of adjacent buildings to be undertaken at locations indicated on site layout plan.

2.3.10 PROTECTION OF PROPERTY, PUBLIC, HOARDINGS

The Contractor shall provide and erect to the satisfaction of the Engineer all necessary protective screens or scaffolds that may be required, of a sufficiently substantial nature to prevent damage, nuisance or disturbance by debris or dust to adjoining properties, public highways or persons or traffic passing nearby.

During the demolition works no wall or part of the structure shall be left in a dangerous or insecure condition at any time when a representative of the Contractor is not on the site, and adequate barriers and (after darkness) lamps shall be provided to warn users of any obstruction or danger.

The Contractor shall bear in mind that demolition sites are of special attraction to children and shall take all reasonable precautions to warn children of the danger of trespassing and to deter them from so doing. The Contractor must keep all public footpaths adjoining the sites available at all times for use by the public, and the stacking of timber and other materials thereon is expressly forbidden.

The contractor shall perform the demolition works with respect to the wind direction and shall implement all appropriate and necessary measures to ensure minimal dust nuisance to the surrounding environment.

The demolition works on site are to be carried out in such a manner as to cause as little inconvenience to adjoining property owners and/or the public as possible, and the Contractor will be held responsible for any claim which may arise from disregard of this clause.

WORKS SPECIFICATIONS

2.3.11 PRICING ON SITE

The contractor is deemed to have visited the site and ascertained the full extent and nature of the demolitions.

2.4 MATERIALS ARISING

2.4.1 CONTRACTORS PROPERTY

Components and materials arising from the demolition are deemed to be the property of the Contractor except where otherwise provided. The Contractor is responsible for its safe removal from site as work proceeds.

3 REMEDIAL WORKS TO EXISTING RETAINING WALL AND FENCING

Following careful removal of trees / shrubs from the retaining wall and further to power cleaning carried out, the contractor shall provide for the supply and installation of the following:-

All significant cracks to be grouted, prior to shotcrete application.

Install weepholes.

2 passes of 'Fibre Reinforced Concrete' (shotcrete) to be sprayed onto retaining wall, to provide a minimum finish thickness of 120mm.

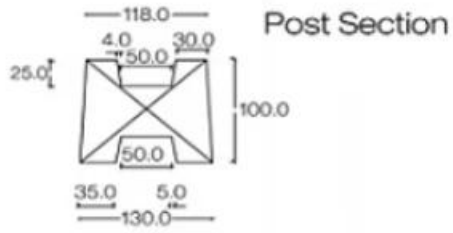
Fencing to be concrete 'H' posts (2440 high) at 1800mm centres. Finished height of fence to be 1800 high.

All insert rails to be 1800 x 300 high concrete panel.



Typical example of proposed fencing.

WORKS SPECIFICATIONS



Typical Post Section

Posts to be securely concreted in.